DEDICATED BY SPECIAL AUTHORITY TO HER MOST GRACIOUS MAJESTY THE QUEEN.

THE

BRITISH COLONIES;

THEER

Bistory, Extent, Condition, and Resources:

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VOL I.

BRITISH NORTH AMERICA

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PREFACE.

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In imparting to the public, five years since, the design of this great work, and the character with which it was proposed to invest it, the author took the liberty to offer some remarks of a general nature, the substance of which it may perhaps be necessary, at all events cannot be improper, to recapitulate in this place.

"It is needless," he observed, "to descant largely on the extended information and delight which we derive from the multiplication of portraits by engraving, or on the more important advantages resulting from the study of biography. Separately considered, the one affords an amusement not less innocent than elegant; inculcates the rudiments, or aids the progress, of taste; and rescues from the hand of time the perishable monuments raised by the pencil. other, while it is perhaps the most agreeable branch of historical literature, is certainly the most useful in its moral effects, stating the known circumstances, and endeavouring to unfold the secret motives, of human conduct; selecting all that is worthy of being recorded, bestowing its last encomiums and chastisements, it at once informs and invigorates the mind, and warms and It is however," added he, "from the combination of portraits and biography that we reap the utmost degree of utility and pleasure which can be derived from them. as in contemplating the portrait of an eminent person we long to be instructed in his history, so in considering his actions we are anxious to behold his countenance. So earnest is this desire, that the imagination is generally ready to coin a set of features, or to conceive a character, to supply the painful absence of the one or the other. All sensible minds have experienced these illusions, and from a morbid excess of this interesting feeling have arisen the errors and extravagances of the theory of physiognomy." It was not then with the mere view of perpetuating the histories or the resemblances of the illustrious dead-of exhibiting the skill of the painter, or the fidelity of the engraver—that this work was undertaken; but in the hope, by a combined effort, to make the strongest possible impression on the judgment and the memory, as well as on the imagination; and to give to biography and portraits, by uniting them, what may very properly be called their natural and best moral direction.

The authenticity of the memoirs here presented will stand or fall by the application of tests which are within the reach of every reader; the truth of the correspondent portraits may be tried by an examination of the originals, which are in every instance referred to; and the degree of skill displayed in the engravings will speak for itself. It will be obvious to the experienced eye, that the talents of the engraver have been exerted upon pictures of very varied degrees of excellence; for whilst this work has extended our knowledge of some of the finest portraits of Rubens and Vandyke, others have claimed preservation as being the only memorials which are left to us of the persons represented. These are even more valuable, considered historically, for without them we should be deprived of the resemblances of some of the most illustrious

characters in history, who hved either in the infancy of the arts, or at periods when they were depressed by the more bustling interest of political strife or warlike contention.

It may be pardonable to assert on the behalf of the proprictors, that they have attempted to their utmost to possess their country of a work as perfect as human fallibility could permit; beautiful and correct in its two essential characters, and magnificent in all its subordinate features. They have spared no pains, they have denied no expense, in their anxious endeavours to render it an acceptable tribute to higher taste and judgment, and a monument worthy of dedication to the exalted memory of those whom it professes to celebrate. Their diffidence of its merits has certainly been in some degree lessened by a fact which, while gratitude impels them to declare, pride could scarcely have allowed them to conceal—the patronage and success which the work has experienced have been nearly unexampled.

The author of the memoirs too may perhaps be allowed to use a few words on his part of the task. He claims no degree of merit beyond that which may justly belong to patient circumspection, laborious research, and impartial relation; and he has no other motive for asserting that those advantages really have been bestowed on them, than a wish to procure for them the favour of a mere perusal. Without this caution, it is more than probable that they might sink unobserved under the weight of a general and most excusable prejudice; for when he recollects the vague and frothy essays which almost invariably wait on engravings in ceremonious portions of what on such occasions is most properly called "letter-press," being in fact nothing else, he feels it necessary thus to bespeak for the fruits of his labour, humble as they may be, at least a fair trial. He has employed the best powers of his mind to give to these tracts as much of the true character of biography as the space allotted to them could allow. He has silently passed over minor and insignificant facts, and sought diligently for original and novel intelligence. He has lost no opportunities of correcting misrepresentation; of placing neglected or misconceived objects in their just lights; or of endeavouring to describe characters with strict impartiality and truth. It has been, indeed, his chief anxiety to distinguish himself from those "gentle historians," whose strains of unvaried panegyric were once honoured beyond their desexts by a sarcasm from the pen of the incomparable Burke. His judgment, however frequently it may be found erroneous, and his expression of it, have been wholly unbiassed by any private motives. He has described men and things as he thought they deserved, and his friends have told him that he has sometimes spoken too plainly, but they have not been able to convince him that he has done wrong.

Quitting, however, these selfish topics, let us hasten to conclude this short address with a sincere declaration of those better feelings which perhaps alone rendered any sort of preface essentially necessary to the following sheets. Be it permitted to us most gratefully to acknowledge the condescension with which our solicitations for the powerful aid of those not less distinguished by their taste than by their exalted rank have been received, and the liberality with which the use of a vast treasure of inestimable pictures has been granted by the possessors of the most eminent collections in the land. Patronised and encouraged in every way by the noblemen and gentlemen who are respectively named on the several plates, from their bounty have arisen the means of producing a work which has laid us under such deep obligation to public favour. Justly ascribing it then to their splendid generosity, be it, with the most profound respect and gratitude, to them dedicated.

QUEEN'S MOST EXCELLENT MAJESTY.

MADAM,

In soliciting authority to lay this Work before your Majesty, I was actuated not merely by the desire common to every faithful subject of testifying, however humbly, a sense of dutiful affection to my Sovereign, but yet more from a conviction that a History of the Colonies, their Extent, Condition, and Resources, could with propriety be dedicated only to a Monarch most deeply interested in their welfare, and fully impressed with the value of these integral parts of the British Empire.

I have briefly traced the origin and progress of your Majesty's Colonial Dominion, the foundations of which were laid by the provident policy of your regal ancestors, Queen Elizabeth and King James the First, aided by the sagacious counsels of the great Lord Bacon; the wondrous structure has been reared with persevering energy by the wisdom of such statesmen as Clarendon, Halifax, Chatham, Burke, Pitt, Peel, and Russell; it has been enlarged and adorned by the genius of such patriots as Raleigh, Baltimore, Penn, Cook, Clive, Hastings, Cornwallis, and Wellesley; defended by the valour of such warriors as Wolfe, Elliott (Heathfield), Brock, Lake, Sale—Wellington, Hardinge, Gough, and Napier; and by the naval skill of Drake, Hawkins, Frobisher, Blake, Anson, Rodney, Duncan, Howe, Jervis, Collingwood, and Nelson.

The acquisition and improvement of Colonies has indeed been deemed so essential an element of national power and prosperity, that the best blood, the wealth, the talent of England have been unsparingly devoted to this great end; which, though at a costly sacrifice, has been attained; and in every quarter of the globe the Transmarine Territories of the Crown exhibit monuments of British heroism, proofs of patriotic deeds, and permanent illustrations of administrative ability.

The rule of your Majesty now controls an Empire so vast in its extent, that the influence of England is exercised in the remotest parts of the globe; the Sceptre of Your Power protects (beyond the limits of the United Kingdom) more than one hundred million Freemen—civil and religious liberty being the birthright of every Citizen of a State, whose first principles of government will

not allow her to tolerate slavery in any form, or persecution under any pretence—whether affecting her own children, or the stranger who comes within her gates.

Blessings such as these render the sway of your Majesty a substantial benefit to every denizen of this mighty Empire;—all share in its glory and prosperity, and have a common interest in the progress and proceedings of their fellow-subjects. The social and domestic habits, manners, and customs of the Parent State are preserved and adopted in the Colonies; the numerous temples of worship, schools, and hospitals, which distinguish England from every other nation on the face of the earth, and are the best evidence of her Christian character; the general principles of obedience to the laws, respect for authority, and love of order—are equally manifest in our most distant settlements as in any county of the United Kingdom.

To another striking point of resemblance I am enabled to bear my humble testimony; in the course of a personal examination of the greater part of your Majesty's Transmarine Dominions, I have had many opportunities of witnessing the loyalty of the Colonists;—they love "the island home," that is to them the nucleus of their national feelings—cherish a strong attachment to their Sovereign and to Her Illustrious Consort—and earnestly desire to participate in the honours and distinctions which, emanating directly from the Throne, cause its dignity to be appreciated, even in the remotest portions of the Realm.

Two members of the Royal Family have visited the Colonies: his late Majesty King William the Fourth, who ever evinced an earnest solicitude for their welfare—and your Majesty's Royal Father, whose memory is still venerated in British America, for there, as in England, his just and generous mind—his catholic and philanthropic spirit—found its purest delight in promoting the welfare of his fellow-subjects, and in mitigating human suffering.

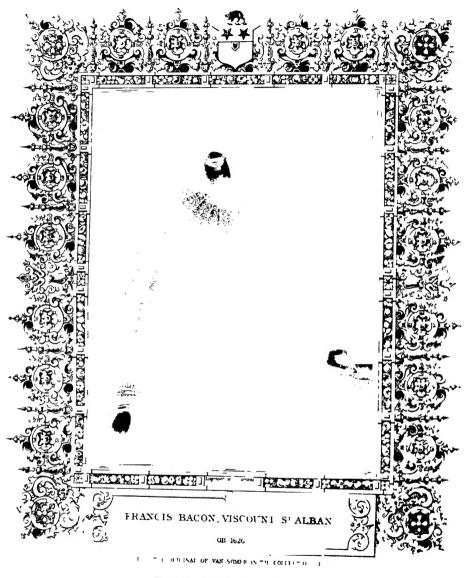
I acknowledge with deep respect the gracious indulgence of your Majesty in authorizing a Dedication of my endeavours to make the condition and worth of the Colonies more generally known and more fully appreciated—and I sincerely hope that the intrinsic importance of the subject may not be undervalued through my inadequate efforts for its development.

I have the Honour to be,

MADAM,

Your Majesty's dutiful Subject,

R. M. MARTIN.



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INTRODUCTION.

SECTION I.

COLONIZATION OF ANCIENT AND MODERN NATIONS.

COLONIZATION,* that is the occupation and tillage of waste lands, is in accordance with the primary decree of Heaven, that man should be "fruitful and multiply, and replenish the earth, and subdue it." The earliest records of mankind consist chiefly of the history of migrations from one part of the globe to another, as population increased, or civilization created new wants.

This great principle, like the other primary laws of the creation, is universal in its operation, and extends throughout the animal and vegetable world; what man does from reason, the brutes do from instinct gregarious animals separate into herds, and disperse themselves over a country as pasture diminishes; trees and roots send winged seeds or offshoots to a considerable distance to perpetuate their stock, or in search of nourishment; fish migrate from sea to sea; and insects traverse diverse regions according to their respective exigencies.

But the natural desire for abundant sustenance which impels the migration of animals, is counteracted in man by a strong attachment to his birth-place—by love of kindred, and by those social ties which bind together human societies. And it is wisely ordained that it should be so: man would never have advanced beyond the nomadic or wandering state, but for those local associations which attach him to his native land, and give an indescribable charm to the river, the mountain, or the glen, where the days of childhood have been spent, and where the emotions connected with his first ideas have been enjoyed.

Many urgent reasons, however, arise to counteract the force of local attachments. The duty of providing for offspring—a desire for adventure—the love of fame or conquest—a difference in religious or political opinions—a thirst for information,—each and all tend to disseminate mankind over regions which, from their position, climate, soil, or other advantages, present the best prospects of gratifying their desires.

We see these motives operating in successive ages; we trace them in the lives of Shem, Ham, and Japhet; of Abraham, Isaac, and Jacob; and when individuality is merged

• Colonus, in the Roman acceptation of the word, originally signified as much land as one person could cultivate—"Quantum Colonus unus erat poterat;" from Colonus was derived Colonus, signifying a nody of husbandmen sent out from the parent stock to cultivate other lands, and by a metonymy the place to be cultivated received the same appellation as the inhabitants who were to cultivate it,—Colonus:—hence the word Colony, which is used in the present work to designate all the maritime possessions and dependencies under the dominion of the British crown, not represented in the Parliament of the United Kingdom.

in national history, we mark them influencing the destinies of Egypt, Greece, Carthage, and Rome; and, in a later age, those of Spain, Portugal, Holland, France, and England.

Egypt appears to have been colonized by a race who, after the dispersion of mankind on the plains of Shinar, s.c. 2287, travelled westward, and spread themselves over Upper Egypt, founded Thebes, occupied the fertile banks of the Nile, and established Phœnician settlements, which, for a time, occupied almost the whole of the South coast of the Mediterranean, from Egypt to Gibraltar.

In the year 1556, B.C., Cecrops, at the head of a band of colonists, migrated from Egypt into Attica, and became the first king of Athens; in 1546, B.C., Scamander from Crete, founded Troy; in 1493, B.C., Cadmus introduced into Greece the Phœnician letters, formed the Greek alphabet, and founded Thebes. The expedition of the Argonauts was undertaken B.C. 1263, with the intention of opening the commerce of the Euxine Sea, and of establishing Colonies in the adjacent country of Colchis.

As the kingdoms or republics of Greece advanced in art, science, and literature, internal commotions arose. Food was with difficulty obtained for a superabundant and increasing population, consisting chiefly of slaves, and expeditions were fitted out by vanquished or disappointed politicians, or by adventurers desirous of fame, or prompted by a spirit of commercial enterprise, for the formation of colonies in the maritime ports of Asia Minor, in the Ægean and Ionian Seas, and in Italy. B.C. 1243, the Arcadians were conducted by Evander into Italy; B.c. 1124, the migration of the Æolian Colonists took place; B C 1044, the Ioman Colonies were formed by Greeks; B.C. 732, Syracuse was built by Corinthian Colonists; B. c. 713, Geta in Sicily was founded; B. c. 707, Tarentum was built by the Parthenians when expelled from Sparta; B c. 703, Corcyra was founded by the Corinthians, B c 665, the Messenians, on their expulsion from the Peloponessus, passed into Italy, B c. 658, Byzantium was built by a colony of Argives; B C 539, the Phoceans settled in Gaul, and built Marseilles; B C 469, the Tuscans formed a colony at Capua; Bc. 414, the Athenians sent a colonizing expedition to Thurium in Italy, and among the adventurers were Herodotus, Thucydides, and Lysias; B.c. 304, Seleucus founded Antioch, Edessa, Laodicea, &c. The Colonies of the Dorians were chiefly established in Italy and in Sicily, then inhabited by barbarous tribes; those of the Ionians and Æolians in Asia Minor and the islands of the Ægean Sea.

The Greek term for Colonies was anounce—a "separation of dwelling"—a "departure from or going out of a house," and the word well expresses the character of the Greek Colonies, which were often formed by a large number of individuals emigrating in organized communities from their native country, whose Government ceased to possess any authority over them; but with which, in many instances, they remained feudally united, aiding the parent state in time of war with money, ships, and warriors, or furnishing mercenary troops, as the Greeks (themselves originally Egyptian Colonists) had done to Alexandria. The Greek Colonies frequently asserted their independence by refusing assistance to the mother country, unless their own terms were conceded; thus the Sicilians denied the admission of an Athenian army into their territory to rest, when proceeding on an expedition; and Syracuse refused to co-operate with the Lacedemonians during the Punic war, until Gelon, their chief magistrate, was allowed to command the united forces. In some cases the colonists severed themselves entirely from their native

EXTENSION OF-THE CARTHAGINIAN COLONIES.

land, and sought the protection of another government; thus Corcyra and Potidæ, colonies of Corinth, united themselves to Athens.

In the present day such settlements would not come under the denomination of Colonies; they were virtually independent states, maintaining an alliance with governments able to afford them protection, but they added neither power nor wealth to the states from which they sprung, or with which they were connected.

The Colonies of Carthage were formed on a different principle from those of Greece; they were regarded chiefly as a means of commercial advantage, and maintained as strict monopolies for the benefit of the parent state. Carthage, the most celebrated of the Phœnician Colonies, was established by settlers from Tyre. The city of Carthage was built B.C. 878, and destroyed by the Romans B.C. 146.

Throughout the greater part of the intervening period of 732 years, Carthage was engaged in extending her dominion beyond the limited spot on the African coast where the city was first established. Three hundred African cities owned her sway, which extended for 2000 miles along the sea coast, from the Syrtis Major to the "Pillars of Hercules." Sardinia, formerly belonging to Etruria, was one of her earliest colonies, and the agricultural resources and mineral wealth of the island rendered it a very valuable possession Malta, Majorca, and Minorca, previously under the rule of Tyre, yielded to the supremacy of Carthage. Along the coasts of Spain, on the shores of Great Britain and Ireland, as far, if not farther south along the coast of Africa than Senegal and the Gambia, Carthage acquired settlements, or extended her commerce. The sole occupation of Sicily was long contested with the Greeks; its entire possession would most probably have delayed, if not averted, the ultimate effects of the Punic wars: but in the first of these wars Sicily and Sardinia were lost to Carthage. Deprived of those possessions, and consequently of the commerce and maritime position which they secured, the ruin of the Carthaginian power was rapid, and its conquerors became in their turn a great Colonizing nation.

The Romans, soon after the foundation of the Imperial City, planted settlements in its neighbourhood, which served as outworks for defence, and for the supply of the necessaries and luxuries of life. During the second Punic war, sixty such colonies were established. After the destruction of the Carthaginian power, the spirit of conquest and the urgent necessity of providing for large numbers of disbanded and often mutinous soldiery, whose only means of subsistence lay in the tillage of the earth; the agrarian laws by which the senate was obliged to provide all its citizens with land, the augmentation of slaves, and the abundance of money, for which a profitable investment was found almost exclusively in the cultivation of the soil, all led to a rapid extension of the Roman Colonies.

The lands of conquered countries were considered the property of the state, and they were parcelled out among the public officers of the government, apportioned to the citizens for whom land could not be provided at home, and distributed among the soldiery. Military establishments were formed in the most fertile or the most secure places, where the wealth of the colony could be obtained, and its possession secured against any rising of the native inhabitants. Colonies such as these extended over Gaul, Germany, Spain, and England, and throughout various parts of Asia and Africa. It is difficult to estimate the area occupied by these colonies. From the foundation of the city to the death

of Augustus, 164 colonies were established in Italy, and 199 in the provinces. Crete became a Roman colony B.c. 66. Cæsar formed plans (B.c. 45) for rebuilding Carthage and Corinth. London was built by the Romans A.D. 50. Agricola reduced South Britain to a Roman Province, A.D. 82. Augustus planted twenty-eight colonies in Italy; fifty-seven were established in Africa, exclusive of Egypt; twenty-five in Spain; four in Dacia, and five in Britain. It was estimated in the reign of Claudius, that Rome and its colonies contained 126,000,000 people.

The colonies furnished employment for the more adventurous of the Roman citizens, and yielded large returns for invested capital. Seneca (who at his death had money to the value of £600,000 sterling due to him from colonists in Britain) assigns the following reasons for the formation of colonies, which are equally applicable in the present day:—

"Nec omnibus eadem causa relinquendi quærendique patriam fuit. Alios excidia urbium suarum, hostilibus armis elapsos, in aliena, spoliatos suis, expulterunt. Alios domestica seditio submovit. Alios nimia superfluentis populi, frequentia, ad exonerandas vires, emisit. Alios pestilentia, aut frequents terrarum hiatus, aut aliqua intoleranda infelicis soli ejecerunt. Quosdam fertilis oræ, et in riajus laudatæ, fama corrupit: Alios alia causa excivit domibus suis "—(Consol. ad Helviam, c. 6)

The colonists sent out by the senate were either Roman or Latin citizens.

The Coloniæ Romanæ enjoyed only to a limited extent the Jus Romanum; they were not permitted to exercise the right of suffrage, and magisterial dignitics, military command, &c, were denied them; they were permitted solely the Jus Quiritum, namely, personal liberty, honours of gentility, dignity of family, &c; and they were compelled to furnish such contributions as the senate and emperors chose to demand.

The Coloniæ Latinæ possessed rights and privileges of their own; were empowered to a certain extent to form their own laws; and whoever became an edile, or prætor, in a Latin town, enjoyed, by right of office, the rank of a Roman citizen. These Latin colonies also rendered tribute to the parent state. Their rights were styled Jus Latin, and it was not until after the Servile War that the privileges of Roman citizens were granted by the lex Julia to all the Latin Colonists.

There were other colonies whose privileges were comprised in the Jus Italicum; they were free from the taxes paid by the Colonie Latine et Romane, of this class were the Colonies of Tyre, Heliopolis, Palmyra, &c. Most of the colonies furnished their quota of troops for the Roman legions; the natives of each colony were drafted into regiments serving in distant settlements.

Political selfishness and mordinate ambition were the predominative motives of Rome, both in the formation and in the government of her colonies; which, as they grew powerful, threw off the yoke of their military tyrants. After 400 years' occupation of England, excepting in the roads made for the more complete subjugation of the islanders, we find few traces of the boasted Roman civilization, and no permanent benefit from their rule. Fifty years after the conquest of Asia, 150,000 Roman citizens were massacred by order of Mithridates; there was no binding link to connect distant parts of the empire; no community of language or of interests, and centuries of conquest and despotism, slavery and crime terminated, happily for mankind, in the complete overthrow of the "Mistress of the World."

Proceeding chronologically (passing over the incursions and migrations of the

Northmen, Normans, or Danes, in the ninth and tenth centuries), the next Colonizing Power is the Republic of Venice, which was founded on the lagunes of the Adriatic, A.D. 737, by colonists from the Romana-Italian province of Venetia. The colonies of Venice extended along the coast of Dalmatia, to the Ionian islands, the Morea, the Greck Archipelago, Candia, &c. They were designed chiefly with a view to the extension of commerce; but Corfu and other settlements in the Ionian Islands evince to this day the power, opulence, and deep-laid policy of the Venetians. Genoa, on the acquisition of colonies in the Levant, along the coast of Provence, and in the Crimea, rivalled Venice; but both states fell into decay through the loss of their foreign possessions. The discovery of the new continent of America, (A.D. 1492) and of a passage by the Cape of Good Hope to India, opened to Spain and Portugal the means of acquiring colonial dominion, and gave a new direction to the commerce of the eastern and western hemisphere.

Heretofore all European, Asiatic, and African trade had been carried on by land, or by frail barks skirting the coast-line, or passing from island to island by circuitous and expensive routes. But the introduction of the mariner's compass into Europe from Asia (A.D. 1229) made the trackless ocean the high road of daring navigators, and brought the distant parts of the earth into comparatively close communication. From this era may be dated the commencement of a new and important epoch in the history of maritime commerce and of modern colonization. The nautical skill and daring of Prince Henry of Portugal, in the beginning of the fifteenth century, were rewarded by the discovery of Madeira and of Western Africa; the politic and thrifty Henry the Seventh of England gave comployment to navigators in the hope of adding to his wealth and extending his dominions; but to the noble-minded Isabella of Spain, and the profound speculations, courage, and perseverance of Columbus, Europe is indebted for the discovery of a "new world" on the 11th of October, 1492. Between the years 1508 and 1510 Spain formed colonies in Cuba, Porto Rico, and Jamaica. In 1519 Cortez landed at Vera Cruz, and in 1521, with a few adventurers, conquered Mexico. Peru, Chili, and Quito were added to the crown of Spain between 1529 and 1535 by Pizarro and his generals. In 1532 Terra Firma was occupied in 1536 New Grenada was subjected, and Manilla in 1564. The narrow-minded policy of Spain prohibited one colony trading with another, the colonial commerce was restricted to certain ports in the mother country, and for a long period Seville was the only port in Spain with which the colonies were allowed to hold intercourse. The object of the Spaniards in the acquisition of these colonies was neither that of the Egyptians, Grecians, Carthaginians, or Romans. Gold was the prevailing motive; the desire for immediate wealth over-ruled every consideration of humanity, of justice, or of sound policy; the natives were worked to death in the mines, shot like wild beasts, if they offered the slightest resistance to their merciless oppressors, or hunted with blood-hounds if they attempted to escape from the demons in human form who wantonly sported with their sufferings. Language would fail to convey an adequate idea of the atrocities perpetrated by the Spanish colonizers on the Indians, whose rapid extermination led to the introduction of negro slaves from Africa. Spain, for a time, derived great wealth, and obtained much power by means of her colonies; but no lasting benefit could arise from such ill-gotten riches and dominion. Spain lost in succession all her vast possessions in the

Floridas, Mexico, California, Darien, Terra Firma, Buenos Ayres, Paraguay, Chili, and Peru. She was entirely driven from every continental territory; Cuba, Porto Rico, Manilla, Teneriffe, &c., now alone remain; and notwithstanding her internal wealth, fine chimate, and advantageous position on the peninsula of Europe, Spain, with her thirteen million inhabitants, is now the most sunken, degraded, and powerless nation of the western world.

Portugal competed for colonial territory with Spain, and by a papal decree the new countries in the eastern and western hemispheres were divided between the rival states, without reference to any other European nation. Madeira was discovered A.D. 1419; Cape Bojador, in Africa, 1439; Cape de Verd, 1446; the Azores, 1448; Cape de Verd Islands and Sierra Leone, in 1449. In 1484 the Congo was visited and the Cape of Good Hope discovered. In 1498 Vasco de Gama, after doubling the Cape, landed in Calicut, on the shores of Hindoostan, and subsequently the Portuguese built forts and formed colonies at Mozambique, Sofala, Melinda, and other places on the eastern coast of Africa; at Ormus and at Muscat, in the Persian Gulf; at Goa, Diu, and Damaun, on the western or Malabar shores of the peninsula of India; Negapatam, and Meliapoor, on the Coromandel coast; at Malacca, and on the coast of China. In 1500 Brazil was discovered, in 1511 the Spice Islands were colonized, and about 1520 Ceylon was occupied by the Portuguese.

Although the hope of obtaining gold did, to a certain extent, encourage the progress of Portuguese discovery and colonization, the predominating motives were a love of adventure, a hope of attaining fame, or of acquiring honours from a patriotic sovereign; and, in a great degree, a religious spirit, verging on fanaticism, prompted many to seek, by converting the heathen, to extend the faith of the Cross. With the chivalry and enthusiasm of the Portuguese character in the sixteenth century was united nautical skill and commercial enterprise, of which latter the Spaniards were exceedingly jealous, and on the union of Portugal with Spain, the colonies of the former were quite neglected in favour of the latter. As Portugal lost her foreign possessions she sank in the European scale, and her colonies are now reduced to a few wretched forts in Africa: the small town of Macao in China, the island of Timor in the Eastern Archipelago, Goa (once a place of great splendour in India, now deserted, and in ruins), Madeira, the Cape Verd Islands, and some smaller places. As in other instances, the loss of her colonies has been followed by a change of the national spirit into apathy, indolence, and degradation.

A power that had reclaimed its territory from the ravages of the ocean, competed with Spain and Portugal for colonial dominion. The Dutch, while yet struggling for independence, were employed as the carriers to Lisbon from the colonies of Portugal, and thus became acquainted with the value of colonial trade. In 1584, Philip II. of Spain prohibited the intercourse of the Dutch with Lisbon; these orders being evaded were revived with greater strictness in 1594, and a number of Dutch vessels seized in Lisbon harbour were destroyed. The Dutch, being deprived of the carrying trade, were compelled to seek colonies for themselves; to which they were stimulated by the writings of John de Witt, who urged that colonies offered a field for exertion to men of abilities—were a good substitute for hospitals and charitable foundations—and were advantageous for men who had been unfortunate in trade. An association was soon formed to trade to "remote



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THE MOST NOBLE THE MARQUIS OF BATH



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parts." The first expedition sailed for India, 20th March, 1602. Batavia, in the island of Java, was colonized in 1618; a trade with Japan opened in 1611; a West India Company established in 1621; settlements were formed and conquests made in Brazil from 1630 to 1640; Ceylon captured from the Portuguese in 1640; St. Eustatia, Curaçoa, Saba, and St. Martin in the West Indies, colonized from 1632 to 1649; Surinam, Essequibo, Berbice, and Paramaribo acquired in 1670. Dutch settlements were formed in Asia, also at the Cape of Good Hope, and several parts of the African coasts; at New York, and other places on the continent of North America; and Holland soon rose superior to her former masters in maritime power, commercial opulence, and political consideration; but at the commencement of the present century, when Holland lost Ceylon, the Cape of Good Hope, Demerara, Java, &c., she sunk into comparative insignificance, from which she was only rescued by England's restoring Java, and other possessions in the rich Eastern Archipelago, by which the Dutch are now mainly enabled to maintain their position among European nations.

France was not an idle spectator of the contests for oceanic supremacy, which the possession of colonies conferred. Francis the First, with the ardour of an enterprising mind, encouraged maritime discovery. In 1552 Gaspard de Coligny, who had early embraced the reformed fath, was appointed admiral of France; and with the hope of rivalling every other nation in Europe, he projected a grand scheme of colonization, which was to extend from the river St. Laurence to that of the Mississippi; but Coligny perished as a Huguenot on the night of the massacre of St. Bartholomew, and his plans were not carried out. In the middle of the seventeenth century Colbert, minister in the earliest and best part of the reign of Louis Quatorze, made great efforts for the extension of French Colonies. Martinique, St. Lucia, Grenada, were purchased from private individuals: in 1661 France possessed Canada, Louisiana, &c.; in 1664 Cayenne was colonized; in 1697 St. Domingo; in 1670 Pondicherry in the East Indies; in 1720 the Isle of France and Bourbon. In the revolutionary war England deprived France of her colonies; St. Domingo was lost by a slave insurrection, and France has not since recovered her former naval power.

If Spain, Portugal, Holland, and France, during the sixteenth and seventeenth centuries deemed the possession of colonies essential to their prosperity, how much more must England have felt their importance, by reason of her insular position and limited territory. Happily for her a monarch was, at an eventful period, on the throne, who stands distinguished in the page of history for the rare discernment she evinced in promoting the welfare of her people and the glory of her country. Elizabeth clearly foresaw that England could neither obtain nor maintain a prominent position among the nations of Europe except by means of her maritime power, which could be insured only by the possession of colonies. Encouragement was, therefore, offered to facilitate the discovery of hitherto unknown regions, and for the planting of new settlements.

In 1591 English vessels first found their way round the Cape of Good Hope, and in 1599 Queen Elizabeth granted a charter for the incorporation of a company of adventurers trading to the East Indies. Towards the close of the 16th century the attention of England was directed to the coast of America. In 1583 Sir Walter Raleigh obtained, by letters patent, a large tract of country which he named Virginia, in honour

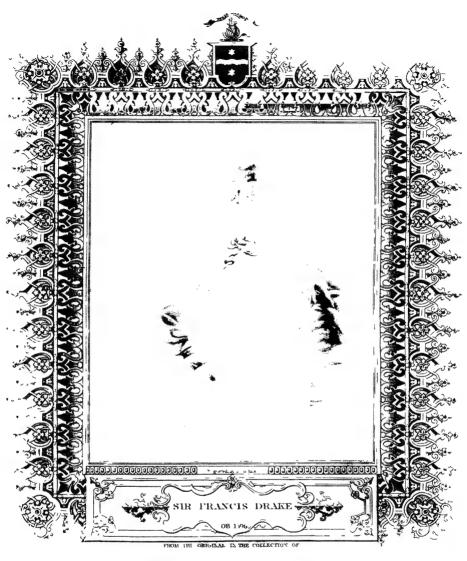
of his Sovereign; and in 1584 the first English settlers were sent out by Raleigh to North Carolina, and established themselves on the island of Roanoke; but on the arrival of Sir Francis Drake, in 1586, they quitted the settlement in his vessel. The unfortunate Raleigh made several other attempts to colonize his territory, but they were all unsuccessful; and at the commencement of the 17th century there were no English settlers in any part of the continent of America.

In 1606 letters patent were granted to two companies named the London and the Plymouth. The London adventurers were to establish themselves between 34° and 41° north latitude, and the Plymouth and Bristol adventurers between 38° and 45° north latitude, on the coast of America. Great hardships were experienced by the early settlers from famine, disease, and wars with the Indians; and, in several instances, the attempt at colonization was abandoned. In 1610 the Virginian Colonists were on the eve of quitting Virginia when Lord Delaware, the new governor, arrived with a supply of provisions and 150 men.

During the 17th century the settlements planted on the coast of North America were, in chronological order, as follows .- Virginia, A.D. 1607; New York, which was contended for and alternately occupied by the English and Dutch, from 1614 to 1674; Massachusets, 1620; New Hampshire, 1623; New Jersey, 1624; Delaware, 1627; Maine, 1630; Georgia, 1632; Maryland, 1633; Connecticut, 1635; Rhode island, 1636; North Carolina, 1650, South Carolina, 1670; and Pennsylvania, in 1682. Some of these settlements owed their origin to enterprizing individuals, others to associations. Maryland was founded by Lord Baltimore who received a tract of country by patent 20th June, 1632. Georgia was granted to a corporation of twenty-one persons. New England was colonized by a congregation of English Puritans. Carolina was vested in a proprietary body, and in 1662 the Earl of Clarendon and seven others obtained from Charles II. a grant of all lands lying between 31° and 36° north latitude. Delaware was originally settled by an association of Swedes and Finns termed the "West India Company," who were subdued by the Dutch from New York, in 1655, and the latter by the English in 1664. In 1680-82 the whole country was transferred to Wilham Penn by the Duke of York, to whom a large portion of the coast of North America had been granted by his brother Charles II.

In 1776 the thirteen Colomes declared their independence, constituted themselves the United States of America, to which several other States have since been added; and their territory now extends from the frontiers of Canada to that of Mexico, and from the Atlantic to the Pacific

The existing Colonies and possessions of England have been settled or acquired, chronologically, as follows:—Barbadoes (our oldest Colony) in 1605; Bermuda, 1609; Surat Factory 1611; Nova Scotia, 1621; Newfoundland, 1623; Nevis, 1628; Bahames, 1629; the Gambia and Gold Coast Forts, 1618 to 1631; Antigua, Montserrat, and St. Christophers, 1632; Fort St. George, or Madras, 1654; St. Helena, 1654-5; Jamsica, 1655; Fort Wilham, or Calcutta, 1656; Bombay Island, 1661; the Virgin Island, 1666; Honduras, 1670; Hudson's Bay territories, 1670; Gibraltar, 1704; Canada, 1759; St. Vincents, Grenada, Tobago, and Dominica, 1763; Bengal Province, 1768; Prince Edward Island, 1771; Benares Province, 1775; Guntoor and the Circars in Southern India, 1778; New Brunswick, 1784; Penang, 1786; Sierra Leone, 1787. New South



THE MOST NOBLE THE MARQUES OF LOTHIAN



Wales, Australia, 1787; Andaman Islands, 1793; Ceylon, 1795; Trınidad, 1797; the provinces of Tanjore, Canara, Malabar, Wynaad, and Coimbatoor, in Southern, and of Allahabad, Moradabad, Bareilly, Rohlcund, and the Doab, in Northern India, 1799–1800; Malta and Gozo, 1800; Perim Island, 1800; Van Diemen's Island, 1803; British Guiana, 1803; St. Lucia, 1803; Delhi, Agra, Meerut, Hurriana, and Etawah, in Northern, and Cuttack, Balasore, and Juggernaut, in Southern India; several Mahratta districts in 1803–5; Cape of Good Hope, 1806; Mauritius and Seychelles, 1810; Ionian Islands, 1810–11; the Deccan and Nerbudda provinces, 1818–19; Singapoor, 1819; Arracan and the Tenasserim Provinces, 1824; Malacca, 1826; Western Australia, 1829; Aden, 1838; South Australia, 1834–5; Port Phillip, 1835; New Zealand, 1839; Falkland Islands, 1841; Hong Kong, 1842–43; Scinde Province, 1844; Natal, 1844, Labuan, 1847; Vancouver's Island, 1848; and the Punjaub Province, in 1849.

But a small portion of our possessions have been, in the strict sense of the word, colonized from England. Barbadoes, Newfoundland, Nova Scotia, New Brunswick, Prince Edward Island, Upper Canada, Bermudas, Bahamas, Antigua, Montserrat, Nevis, Virgin Islands, Australasia, and New Zealand, were planted by settlers from Britain; most of our other possessions have been acquired by conquest and cession. Ceylon, the Cape of Good Hope, and Demerara, were taken from the Dutch; Jamaica, Gibraltar, and Trinidad, from the Spaniards; Canada, St. Vincents, Grenada, Tobago, Dominica, St. Lucia, Mauritius, Malta, and the Ionian Islands, were captured from the French, Aden from the Arabs, Hong Kong, from the Chinese, and the Punjaub from the Sikhs.

Although later in the field of colonial enterprise than the neighbouring continental nations, our country advanced slowly, but surely, in the acquisition of colonial or maritime dominions. The North American continent and West India Islands at first engrossed pubhe attention, and, in accordance with the national character, useful rather than showy and specious possessions have, generally speaking, been sought for, and obtained Agriculture was rightly judged to be the basis of wealth, and the fertility of the soil and a genial climate induced bands of adventurers to migrate to the North American continent With the growth of maritime commerce and the discovery of tropical countries, arose a taste in Europe for foreign commodities, hence the formation of sugar, coffee, and spice plantations in the West Indies. But agricultural industry, whether under the temperate or torrid zone, was not the only object contemplated; it was rightly foreseen, that the possession within the limits of our own dominion of various foreign products, would furnish lucrative and permanent employment for a large amount of shipping, that our colonists would, by their industry, acquire wealth, and become consumers of home manufactures, and that thus every item of colonial wealth would become, in the aggregate, a portion of the national riches. But in later times, other motives influenced England in the rapid extension of her colonial dominion. On several occasions, during the war with France and Spain, she was compelled, in self-defence, to deprive those nations and their allies of their colonies, as the surest means of weakening their power, and of augmenting her own. At the close of the war in 1814, England had stripped France of every colony she possessed, and had taken all that could endanger her from every other nation with whom she was engaged in hostilities; her fleets swept the ocean fearless

of encountering an European enemy, and her vast colonial commerce enabled her to bid defiance to Napoleon and his Berlin and Milan decrees for the expulsion of our trade from Europe.

The Colonial Possessions belonging to the nations of Continental Europe are—

France.—In the West Indies—Martinique, Guadaloupe, Marie Galante, Deseada, and Cayenne. In North America—St. Pierre and Miguelon, near Newfoundland. In Asia—Pondicherry, Mahe, and Chandernagore In Africa—Algiers, Bona, Senegal, Goree, Bourbon Isle, and Isle St. Marie in Madagascar

Spain.—West Indies—Cuba and Porto Rico. Asia—Manilla and the Phillipine Islands Europe—Teneriffe and the Canary Islands.

PORTUGAL.—Assa—Goa, Timor, and Macao. Africa—Forts on the east coast, at Mozambique, Sofala, Delagoa, Inhabam, Quiloa, and on the Zambize; on the west coast at the Congo river. Europe—Madeira, Porto Santo, the Azores, and the Cape Verd Islands.

Holland—West Indies—Curaçoa, Saba, St Eustatia, Surinam, and part of St. Martin. Asia—Java, Sumatra, the Moluccas, Banca, and other possessions in the Eastern Archipelago. A factory in Japan. Africa—Some forts on the west coast

Denmark — West Indies—St. Thomas, Santa Cruz, and St. John Asia—Nicobar Islands. Africa—Forts on the Guinea Coast. America—Stations on the coast of Greenland.

SWEDEN.—The Island of St. Bartholomew, West Indies.

The foregoing brief sketch of the progress of colonization sufficiently indicates the importance attached to the possession of colonial dominion by ancient and modern nations; nor can any one examine their history without perceiving how materially their destinies have been influenced by the possession and government of colonies.

SECTION II.

EXTENT, POPULATION, CLASSIFICATION, ADMINISTRATION, AND IMPORTANCE OF THE BRITISH COLONIES AND MARITIME POSSESSIONS.

THE Colonies and Transmarine Possessions of England, of which it is intended to give a history and description, are so vast in their extent, so varied in their position, so diversified in their population, forms of government, products, and capabilities, that it is difficult to convey in few words a just idea of their relative importance; if arranged according to their position in the temperate or torrid zones, a very imperfect estimate would be formed of their capabilities, as the degree of elevation above the level of the sea materially influences the products of the soil; moreover, some territories principally situated in the

temperate zone, may be extended to the tropic, as Austraha; some settlements reach from the torrid to the temperate regions, as Hindostan, and British America stretches to the Arctic Circle.

The following is a classification of them according to their Territorial Importance, Commercial Value, and Maritime Position:—

Possessions combining Territorial Importance, Commercial Value, and Maritime Position.—Bengal, Madras, Bombay, Scinde, the Punjaub, Assam, Arracan, Tavoy, Tennasserim, Wellesley Province, Ceylon, Malacca, New South Wales, Port Philip, South Australia, Western Australia, Van Diemen's Island, New Zealand, Cape of Good Hope, Canada (Lower), Nova Scotia, New Brunswick, Jamaica, Honduras, Trinidad, and British Guiana.

Territorial Importance.—Canada (Upper), Rupert's Land, Vancouver's Island, Hudson's Bay Territories, Prince Edward Island, Natal, Northern Australia, and other parts of New Holland, the Central Provinces of India, and the Punjaub.

COMMERCIAL VALUE.—Newfoundland, Cape Breton Island, Barbadoes, St Vincents, Grenada, Tobago, Antigua, Dominica, St. Christophers, Lucia, Nevis, Montserrat, the Bahamas, Sierra Leone, the Gambia, Mauritius, Ionian Islands, Penang, and Singapore.

Maritime Position.—Gibraltar, Malta, Gozo, Bermuda, Virgin Islands, Anguilla, Cape Coast Castle, Accra, Annamaboe, the Falkland Isles, Seychelles, St. Helena, Ascension, Heligoland, Aden, Hong Kong, Labuan, Auckland Islands, and the Andaman, and other islands in the Eastern Seas

This classification, though perhaps the least objectionable, is still imperfect; for it is evident that several of the West India Islands and other settlements are of political as well as commercial value, by affording secure havens for our shipping; thus, mere fortresses such as Gibraltar, are useful commercial depôts, as well as political positions, and, with few exceptions, all are of some territorial importance from their rich and productive soil.

Geographical Position of our Maritime Possessions and Dependencies.

In Asia.—Bengal, Madras, Bombay, Scinde, the N.W provinces of Hindoostan, the Punjaub, Assam, Arracan, Tavoy, Tenasserim, Wellesley Province, and Malacca, the Islands of Ceylon, Penang, Singapore, Labuan, Hong Kong. Area (in round numbers) seven hundred thousand square miles, population about one hundred and twelve million. In addition to this territory actually belonging to the British crown in Asia, there are tributary states extending over half a million square miles, and containing more than fifty million people.

In North America.—The Canadas (Upper and Lower), Nova Scotia, New Brunswick, and Cape Breton, and the Islands of Prince Edward, Newfoundland, and Vancouver's and Queen Charlotte; with an area of more than half a million square miles, and two million inhabitants. We have also on the continent of N. America, the territories belonging to, and under the control of, the Hudson Bay Company, extending from the northern frontiers of Canada to the Frozen Ocean, and from the Atlantic to the Pacific, which comprises upwards of three million square miles, and a population of about one hundred and twenty thousand.

In SOUTH AMERICA.—Demerara, Essequibo, and Berbice; Honduras and the Falkland Islands. Area about two hundred thousand square miles; population one hundred and fifty thousand.

In the West Indies.—The islands of Jamaica, the Caymans, Trinidad, Tobago, Barbadoes, St Vincents, Grenada, Antigua, St. Lucia, Dominica, St. Christophers, Nevis, Montserrat, Anguilla, Tortola, and the Virgin Islands, Providence, and the Bahamas, and the Bermudas. Area about twenty thousand square miles; population nearly one million.

In Africa.—The Cape of Good Hope and Natal, the Mauritius and Seychelle Islands, Aden (in Arabia), Sierra Leone, the Gambia, Cape Coast Castle, Accra, and Annamaboe, the Islands of St Helena and Ascension. Area, four hundred thousand square miles, population eight hundred thousand.

In Australasia.—The great Island of Australia, or New Holland, which contains the settlements of New South Wales, Port Philip, South Australia, Western Australia, or Swan River, Northern Australia or Port Essington, Van Diemen's Island, New Zealand, Norfolk Island, and the Auckland Islands. Area more than three million square miles; population half a million, of whom 325,000 are Europeans and their descendants.

In Europe —Gibraltar, Malta, Gozo, Corfu, Cephaloma, Zante, Santa Maura, Ithaca, and Cerigo, in the Mediterranean; and Heligoland in the German Ocean. Jersey, Guernsey, Alderney, and Sark, have been held as fiefs of the Crown since the reign of William the Conqueror. The area of these territories and dependencies is about fifteen hundred square miles; population nearly half a million. Total area, eight million square miles, population* about one hundred and twenty million.

The numerous, intelligent, and industrious population inhabiting the British transmarine territories are as varied in their appearance, character, language, and religion, as the diversified regions in which they dwell. British India possesses a greater variety of races than the continent of Europe. Some of the subjects of the Crown in the East are bold and warlike, others timid and peaceful, some of olive hue, with Roman noses and flowing hair, others have the negro characteristics, some use a polished language, others a barbarous jargon; some are Monotheists, others sunk in the grossest idolatry; some generous and confiding, others treacherous and distrustful. Even in the island of Cevlon there are three races—the Coast Cingalese, the Kandians, and the aborigines or Vedhas. In some of our Eastern possessions Malays predominate; in others, as at Singapoor and Hong Kong, Chinese constitute the mass of the population. A fine race, termed the Parsees, or Guebers, settled in Bombay from Persia, and many Armenians reside in Calcutta. Jews dwell in several of our Indian settlements. In the W. Indies there are nearly a million negroes of African descent, and in Guiana and Honduras several aboriginal tribes still remain. There are also in our western colonies many Mulattoes, the offspring of the white and dark-coloured races. The purely white race are few in number, and descended from the English, French, Spanish, Dutch, and Portuguese.

In British N. America there are about two million white inhabitants, of whom six

In this and other places round numbers are used as best suited to a general summary of facts;—the
latest official figures will be given in the body of the work.

hundred thousand are of French descent, and the remainder of the Anglo-Saxon race. There are also about one hundred thousand Indians in the territories confided to the management of the Hudson's Bay Company.

In South Africa, the British subjects are Dutch, English, Hottentots, Caffres, &c. At the Isle of France and Seychelles, principally French; at Aden, Arabs; on the W. coast of Africa, negroes.

In Australasia there are about three hundred and twenty-five thousand of the Anglo-Saxon race, and no other European blood; there are probably one hundred thousand New Zealanders, a fine race; and scattered savage hordes, in Australia. At Gibraltar, there is a medley of many Mediterranean and African races. At Malta, a peculiar population, partaking of the characteristics of the various nations under whose dominion the island has passed. In the Ionian Islands, the inhabitants are principally Greek, with some Venetian blood; in Heligoland, German; and in the Norman, or Channel Islands, French.

The languages spoken throughout the British empire, are English, French, Italian, Dutch, Spanish, Portuguese, Greek, Persian, Arabic, Maltese, Chinese, Armenian, Hindoostanee, Bengallee, Mahratti, Tamul, Teloogoo, Carnatica, Ooria, Singalese, Malay, Burmese or Assamese, Hottentot, Kaffre, Negro, New Zealand, and various barbarous unwritten tongues. There are about 5,000,000 Christians in our foreign possessions, including the Lutheran, Latin, Greek, and Syriac churches. There are about 50,000,000 Hindoos, professing the religion of Brahm or Brahma; about 20,000,000 Mahommedans; about 10,000,000 Buddhists, or Jains; a small number of the Zoroaster creed, and the remainder are idolaters of various descriptions.

The other less striking diversities which distinguish the population of an empire exceeding in extent, opulence, and power, Rome in her palmiest days, are deserving of some consideration. The distinction between free and bond—to the honour of Christianity—no longer exists; that fearful outrage on humanity has, to some extent, been redressed, at a cost of £20,000,000 sterling; and in recording the millions of inhabitants congregated within the pale of a single government, the historian cannot but rejoice that he speaks of freemen and not of slaves.

Climate, food, and drink, as well as religion, laws, and language, produce differences in thought, feeling, and action. The Indo-British subject, living on the verge of the Himalaya mountains, is a totally different being from his fellow-citizen dwelling in the flat regions of Bengal. The Mussulman of Calcutta, who eats animal food, possesses far more energy and intelligence than the Hindoo dwelling in the same city who hves on rice and water. The ponderous brandy-drinking boor of South Africa, is a totally different man from the vivacious French Canadian, on the banks of the St. Laurence. A wide difference is invariably found to exist between the denizens of a low, hot, and damp region, and those of an elevated, cool, and dry atmosphere; varieties of food and drink produce equally distinctive effects. Estimating the whole population of the British Empire at 130,000,000, not more than 26,000,000 consume flesh abundantly; about 10,000,000 eat of it sparingly; 24,000,000 occasionally partake of it, and 70,000,000 live principally on vegetables and fish. Wheat, oats, and barley constitute the principal grammiverous food of about 34,000,000; potatoes, pulse, and other vegetables, of about 16,000,000; and

rice, maize, millet, and several minor grains, of about 80,000,000 people. With regard to fermented or distilled drink, about 10,000,000 use wine frequently, 25,000,000 malt liquors, 35,000,000 distilled liquors, and about 60,000,000 confine themselves chiefly to aqueous beverages. About one-half the population of the British empire reside within the temperate, and the other half within the torrid zone.

These facts shew that the British is far from being a homogeneous empire; they indicate the great care required even in the application of ordinary rules, much more in the adaptation of abstract principles to vast and varied masses of men under different degrees of civilization.

It may be necessary to offer a succent view of the home administration of our maritime possessions.

The whole of the British territories on the peninsula of India, and the settlements of Penang, Malacca, and Singapore, are under the management of the East India Company, whose delegated trust expires in 1853–54. The affairs of the East India Company are managed by a court of twenty-four Directors, and controlled by the India Board, which is presided over by a cabinet minister representing the Crown, who has under him a working department distinct from that maintained at the East India House. The India Board consists of the President, of paid or unpaid Commissioners (whom the Crown may nominate), and of the two principal Secretaries of State and the Chancellor of the Exchequer, who always, ex officio, form three of the unpaid Commissioners of the India Board. There are two Parhamentary Secretaries to the Board, and the Clerks are divided into judicial, revenue, political, and other departments. There is a permanent Secretary of the Board, and a Librarian.

The Court of Directors of the East India Company are elected by the proprietors of East India stock, and presided over by a Chairman and Deputy Chairman annually chosen by the Court, which is divided into judicial, revenue, and other committees. The secret Committee, consisting of the Chairman, Deputy Chairman, and Senior Director, confer on all matters of importance with the President of the India Board. The patronage, consisting of the appointment of writers or civil servants, military cadets, surgeons, and chaplains, is annually divided into thirty shares, of which the President of the India Board, and Chairman and Deputy Chairman of the East India Company have each two shares; and each Director of the East India Company, one share. In India promotion, both in the civil and military service, goes chiefly by semonty. Staff appointments rest with the Commander-in-Chief, and high political trusts are in the appointment of the Governor-General. In England the President of the India Board has, under the advice of Her Majesty's ministers, the appointment of Commander-in-Chief of the Anglo-Indian army, and of Judges and Bishops. Her Majesty's government also possess a veto on the nomination (by the Directors of the East India Company) of Governors-General, Governors, and Members of Council. The Court of Directors may, however, recall a Governor-General without the consent of the Crown. The India Board, on behalf of the Sovereign, exercises a controlling power in revising all despatches prepared by the Court of Directors and addressed to the governments in India, at Bengal, Madras, Bombay, &c., and the Board alone sanctions increased expenditure at home or abroad. It also possesses an originating power of requiring the Court of Directors to prepare a despatch on any

named subject, of altering such despatch as it may seem fit, and of enforcing its transmission to India by a mandamus from the Court of Queen's Bench at Westminster. The joint power of the Court and Board is exercised in framing laws for the government of India, and in approving or annulling the enactments made in India by the local governments.

The Hudson's Bay territories in North America have been confided to a chartered body called the "Hudson's Bay Company," since 1670. To this company, in 1848, has also been confided the colonization of Vancouver's Island. The powers entrusted to this Corporation and its mode of working will be detailed when describing the territories under their rule

The Norman or Channel Islands have their respective legislatures under the supervision of the Secretary of State for the Home Department.

All the other colonies are in charge of the Colonial Secretary, and may be divided into three classes -lst, Those having a Representative Assembly, a Legislative Council nominated, and a Governor also appointed, by the Crown. 2nd, Those having no Representative Assembly, but a Legislative Council and Governor. In some colonies of this class the members of the Legislative Council are partly nominated by the Crown, and partly elected by the colonists. 3rd, Those having neither an Assembly or Council, but only a Governor, such as Gibraltar. In many instances there is also an Executive Council, composed of the principal servants of the crown The Secretary of State for the Colonies is a cabinet minister of the highest rank, and during war he represents the military department of the government in the cabinet; he has the nomination of the Parliamentary Under-Secretary of State for the Colonies, who retires with him on a change of administration; he acts always in the name of the sovereign, whom he is supposed to consult previous to taking any important step, and he is bound to submit to his colleagues in the cabinet measures of importance previous to their final arrangement. Colonial charters and other questions may be referred by the Secretary of State to a department of the Privy Council for trade and plantations Emigration and land sales in the colonies are confided to the management of three Emigration Commissioners, acting under the orders of the Secretary of State. The permanent department of the Colonial Office consists of two Under Secretaries (one of whom is law adviser on colonial subjects to the Secretary of State) of a chief, and several head clerks, gentlemen of great ability and much general experience, to each of whom is confided a group of colonies, according to their geographical position; several assistant or subordinate clerks and writers, and a librarian or registrar, to whom is entrusted the custody, arrangement, and preparation for printing of public papers.

The patronage of the Secretary of State consists in the nomination of the Governors, Lieutenant-Governors, Commanders-in-Chief, Judges, Bishops, and Church Dignitaries, Law Officers, Secretaries, Treasurers, Auditors, and civil functionaries of every description in the colonics, also the members of the Colonial Executive Council, and the Crown members of the Colonial Legislative Councils; he likewise fills up vacancies in the Emigration Commission, and such as may occur in his own office in Downing-street, where the principle of semiority is not involved.

The power of the Imperial Parliament is exercised in framing constitutions for the colonies, or laws applicable to one or more of our possessions; in the appointment of select

rice, maize, millet, and several minor grains, of about 80,000,000 people. With regard to fermented or distilled drink, about 10,000,000 use wine frequently, 25,000,000 malt liquors, 35,000,000 distilled liquors, and about 60,000,000 confine themselves chiefly to aqueous beverages. About one-half the population of the British empire reside within the temperate, and the other half within the torrid zone.

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The Hudson's Bay territories in North America have been confided to a chartered body called the "Hudson's Bay Company," since 1670. To this company, in 1848, has also been confided the colonization of Vancouver's Island. The powers entrusted to this Corporation and its mode of working will be detailed when describing the territories under their rule

The Norman or Channel Islands have their respective legislatures under the supervision of the Secretary of State for the Home Department.

All the other colonies are in charge of the Colonial Secretary, and may be divided into three classes :- 1st, Those having a Representative Assembly, a Legislative Council nominated, and a Governor also appointed, by the Crown. 2nd, Those having no Representative Assembly, but a Legislative Council and Governor. In some colonies of this class the members of the Legislative Council are partly nominated by the Crown, and partly elected 3rd, Those having neither an Assembly or Council, but only a Governor, such as Gibraltar. In many instances there is also an Executive Council, com-The Secretary of State for the Colonies is a posed of the principal servants of the crown cabinet minister of the highest rank, and during war he represents the military department of the government in the cabinet; he has the nomination of the Parliamentary Under-Secretary of State for the Colonies, who retires with him on a change of administration; he acts always in the name of the sovereign, whom he is supposed to consult previous to taking any important step, and he is bound to submit to his colleagues in the cabinet measures of importance previous to their final arrangement. Colonial charters and other questions may be referred by the Secretary of State to a department of the Privy Council management of three Emigration Commissioners, acting under the orders of the Secretary of State. The permanent department of the Colonial Office consists of two Under Secretaries (one of whom is law adviser on colonial subjects to the Secretary of State) of a chief, and several head clerks, gentlemen of great ability and much general experience, to each of whom is confided a group of colonies, according to their geographical position; several assistant or subordinate clerks and writers, and a librarian or registrar, to whom is entrusted the custody, arrangement, and preparation for printing of public papers.

The patronage of the Secretary of State consists in the nomination of the Governors, Lieutenant-Governors, Commanders-in-Chief, Judges, Bishops, and Church Dignitaries, Law Officers, Secretaries, Treasurers, Auditors, and civil functionaries of every description in the colonies; also the members of the Colonial Executive Council, and the Crown members of the Colonial Legislative Councils; he likewise fills up vacancies in the Emigration Commission, and such as may occur in his own office in Downing-street, where the principle of semiority is not involved.

The power of the Imperial Parhament is exercised in framing constitutions for the colonies, or laws applicable to one or more of our possessions; in the appointment of select

committees to inquire into grievances, or procure information; and in addressing the crown on any subject requiring attention.

Parliament may suspend the constitution, alter, abridge, or extend the functions of any Colonial Legislature: the House of Commons may also interfere in the internal taxation of colonies not possessing Legislative Assembles; and, as a high court of judicature, the House of Lords may try any governor, or other functionary, impeached by the Commons.

Acts of the Colonial Legislatures, unless disallowed by the crown or parliament, within two years, become permanent laws. The crown, through its representative, sanctions the introduction of money bills into the colonial assemblies. A department of the Privy Council investigates colonial matters referred to its jurisdiction by the Secretary of State for the Colonies

The Colonies of England were formerly under the management of a board, to whose care was confided the trade and plantations of the kingdom. On the abolition of the Plantation Board, and the office of third Secretary of State, on the economical motion of Mr. Burke, after the loss of our American possessions, the remaining colonies were transferred to the care of the Secretary of State for the Home Department. On the breaking out of the revolutionary war at the close of the last century, a Secretaryship of State for War was created, and to this department the control of the colonies was confided in 1801. Since then our colonies have been largely augmented, and it has become a question, whether the Home Administrative Department for their management in England does not require enlargement and modification.

In 1837 the writer of this work petitioned the House of Commons on the subject, pointing out the difficulty of exercising a wise and satisfactory rule over numerous and distant transmarine territories, through the medium of a single chief, who was changed with every party majority in the House of Commons,-urging, that within three years there were five different Secretaries and five Under-Secretaries of State for the colonies, whose brief duration of office rendered it next to impossible for them, however great their talents or energies, to enter fully into the various and complicated questions connected with our colonies; and suggesting, therefore, that it might be advisable to constitute a Colonial Board or Council to assist the Secretary of State, -such Board to be composed chiefly of governors, and other servants of the crown. An effective measure of this nature, which may be adopted without any additional expense to the British Exchequer, might avert the necessity of yielding to extreme and unconstitutional propositions. A Colonial Board, such as that of the Treasury, Admiralty, &c., composed of members possessed of local knowledge, as well as general ability, if permanent, would mitigate, if not altogether remove the evils now unavoidably resulting from the frequent change of the Secretary of State, whose labours are exceedingly arduous and responsible.

This is not the place to enter into any examination of possible retrenchments in Colonial Expenditure, civil or military. The whole sums voted by Parliament for the civil expenditure of the colonies in 1849, derived from the revenues of Great Britain, were, in round numbers,—Bahamas, £300; Bermuda, £4,000; Prince Edward Island, £2,000; Western coast of Africa, £13,000; Western Australia, £7,400; Port Essington, or Northern Australia (about to be abandoned), £1,700; New Zealand, £20,000; Heligoland, £1000,

Falkland Islands, £5,700; Hong Kong, £25,000; Labuan, £10,000; governors and others in the West Indies, £18,000; St. Helena, and retired servants of East India Company, £17,000. Total £125,000. Clergy in N. America, £11,500; Indian department, Canada, £14,000; Justices or Stipendiary Magistrates in the West Indies, Mauritius, &c, £41,000; Militia and Volunteers in Canada, £16,000; Emigration department, £13,000; Colonial Office, £37,000. Total £133,000.—Thus it will be seen that the total civil charges of the whole of our colonies defrayed out of the Home Exchequer, directly or indirectly, permanently or temporarily, is about a quarter of a million sterling.

The people of British India provide the whole of the civil and military charges of Hindoostan, defray annually the expenses of twenty to thirty thousand of the Queen's troops; the cost of the Court of Directors of the East India Company in Leadenhall-street, and of the India Board in Westminster. The convict expenditure in Australia and Bermuda is about £225,000 a-year, but this outlay results from vice and crime in the United Kingdom, and is not chargeable to our colonies. The total military cost for the pay and commissariat of the Queen's troops in all our colonies was, for the year 1847: pay, £1,503,059, commissariat, £670,142 = £2,174,059. Of this sum £603,718 was for the Cape of Good Hope during the Kaffre war.

In some of the colonies there are local corps, as in the West Indies, Ceylon, and Malta. There are militia corps in several of our settlements, those of our N. American Colonies comprise 339,139 men

It is deserving of consideration, with regard to our military expenditure in the colonies, that England is obliged to maintain a standing army; which, considering the extent of the standing armies of all European nations, it is a grave question, whether it would be prudent in us materially to reduce.

But, as the constitutional jealousy of a free country objects to the presence of a soldiery which might be made the instruments for wielding despotic power, it is well that those troops should be scattered in different colonies, inured to privation, seasoned in various climates, and ready on any emergency for effective service.

A similar remark applies to the Royal Navy, which our insular position and wide extended commerce requires to be maintained in considerable force. The possession of strongholds and havens in every part of the globe enables us to dispense with the large amount of naval strength that would otherwise be requisite, and our seamen are rendered perfect, and retained in a high state of discipline by being stationed for three or four years on the shores of the distant colonies, in various climates, and amidst many dangers, yet always among their own countrymen, and losing nothing therefore of their nationality.

The shipping registered as sailing-vessels, in the British Colonies in N America, Australia, Africa, and the West Indies, amounts to half a million tons, and the steam-vessels to sixteen thousand tons. The British shipping cleared out of the ports of the United Kingdom for the British possessions alone, in 1847, amounted to more than two million tons. Steam communication has now brought the most distant parts of the empire into close, frequent, and regular intercourse. Mails and passengers arrive in ten days from our North American Colonies, in twenty from the West Indies, in thirty days from the East Indies, in fifty from China; and, according to a new line, they will arrive in sixty days from Australia. This diminution of time or distance between the parent state and

her possessions will greatly tend to consolidate the empire. Lord Brougham, in his able work on "Colonial Policy," has well described the beneficial effects of frequent international communication in the following words—"The only constant, regular, and extensive intercourse, arising from the circulation of inhabitants, is that which is carried on between the different provinces of the same empire, either contiguous or remote—between the country and the towns—the provinces, or provincial towns, and the capital—the districts of industry and self-demal, and the seats of opulence and pleasure—the mother country and her colonies. This intercourse and circulation tends, more than any other thing, to preserve the connexion of the different component parts of a great and scattered empire, and to cement the whole mass."

The colonies yield us a certain supply of necessaries and luxuries which no foreign war or hostile tariffs can lessen. Of 7,000,000 cwt. of sugar imported, our colonies furnish 5,500,000. They send us also 35,000,000 lbs. of coffee, 4,000,000 lbs. of cocoa, 7,000,000 gallons of rum, 1,000,000 lbs. of cinnamon, 6,000,000 lbs. of pepper, 2,000,000 gallons of vegetable oils, 8,000,000 lbs. Indigo, 40,000,000 lbs. of wool (sheep), 100,000,000 lbs of cotton wool, 1,000,000 lbs of silk, 1,000,000 cwt of rice, 1,000,000 loads of timber, also corn, provisions, flax, hemp, hides, skins, saltpetre, gums, drugs, dyes, metals, &c., all capable of indefinite increase. In fish alone Newfoundland has contributed to the empire to the value of about £200,000,000, a richer wealth than the South American mines yielded to Spain

The exports of manufactured articles from the United Kingdom to the colonies nearly equals our whole exports of similar articles to every part of the globe. Mr Disraeli stated in Parliament, on July 2, 1849, that "in the article of calicoes alone there has been an export to the British Colonies, from 1831 to 1846, of 313,000,000 yards more than to all the rest of the world" and it must be remembered, that a colonial trade is even more valuable than a home trade, because not only are the two profits on buying and selling obtained by the citizens of the same empire, Jut a large and valuable amount of shipping is employed

British India and Ceylon consume annually British and Irish produce and manufactures of the value of £6,000,000; N American colonics, £1,500,000; West Indies, £3,500,000, Australian Colonies, £2,000,000, the African settlements more than £2,000,000, the European and other settlements, require for use or sale, about £2,000,000. Our colonial export trade therefore amounts to £20,000,000 a year, and is annually increasing. This commerce, in a national point of view, is double the value of an equal amount of foreign commerce, for the reasons above stated; namely, that the whole profits thereon accrue to the empire, and are in no way divided with foreign states.

Much of our foreign trade may be, and indeed often is, carried on at a loss. When goods accumulate in the warehouses of our great hives of industry, in Lancashire and Yorkshire, they must be sold at any sacrifice; and the difference between the cost and sale price is made up out of the profits on the home and colonial trade. The extent of foreign trade is not an infallible criterion either of individual or national wealth. It is often difficult for exporters to realize in cash, or otherwise, the value of goods sent to a foreign country; but in our colonies goods are consigned to corresponding firms;

or, there are English courts of law there for the ready recovery of debts. Moreover the Metropolitan-Colonial Banks established in London, since 1834, such as the "Australian," "British North American," "Colonial W. I.," "Oriental," "Ceylon," "Ionian," &c., render the remittance of money between England and her colonies as easy and secure as between London and Liverpool. The increasing value of our Colonies is thus shown by T. F. Elliot, Esq., Under-Secretary of State for the Colonies:—

The duties levied in foreign countries on British produce and manufactures, vary from ten to fifty per cent.; but in New South Wales, South Australia, Van Diemen's Land, New Zealand, Ceylon, Mauritius, Cape of Good Hope, Sierra Leone, &c., British manufactures of woollen, cotton, and silk are received as free of all duties as if transmitted from one part of the United Kingdom to another. In our North American Colonies, the duty on British manufactures is 2 to 4, in the West Indies 3 to 4, and in British India but 3 per cent. The consumption of British produce and manufactures in our colonial possessions, ranges from two to ten pounds sterling per head annually; in the United States of America, our best foreign customers, the average is under ten shillings a head annually. It has been said that colonies must become useless as commercial markets under what is termed "Free Trade" But it may also be urged that "free imports" do not constitute free trade;—that the United States and European nations do not admit British and Colonial produce and manufactures on the same terms as England admits their products into the United Kingdom and its dependencies;—that since the adoption of our tariff of free imports in 1846-7, no nation has entered into reciprocal arrangements,—in some instances foreign tariffs have been increased, and that but for the revolutionary state of Continental Europe during 1848 and 1849, by which the manufactures and commerce of the revolutionary countries have been suspended or deranged, it may be doubted whether the newly-adopted system could have been maintained. An European war, the blockade of important rivers, such as the Elbe or Scheldt, the occupation of the territory of a commercial ally, as that of Mexico by the United States, all tend to the diminution of our precarious foreign trade; but a colonial traffic is always within our own control, both for the consumption of British manufactures and for the supply of food and of raw products, and the time is probably not far distant when England and her maritime dependencies will be included in one commercial league, with as perfect freedom of trade as if no ocean rolled between them.

The imperious expression of Napoleon when seeking the destruction of England, and unable to accomplish it by the means in his possession, was—"I must have ships, colonies, and commerce!" The sagacious Talleyrand also, when urging France to acquire and maintain colonies as the best mode of sustaining a fleet which might "reach the vitals of England," declared, that colonies were the sheet anchor of Britain—the support of her navy—the fortress of her power: "Render these useless," said Talleyrand, "or deprive her of them, and you break down her last wall—you fill up her last moat" "Whatever," said Talleyrand, "gives colonies to France, supplies her with ships and

sailors, manufactures, and husbandmen. Victories by land can only give her mutinous subjects, who, instead of augmenting the national force by their riches or numbers, contribute only to disperse or enfeeble that force; but the growth of colonies supplies her with zealous citizens, and the increase of real wealth and effective numbers is the certain consequence."

Napoleon, in one of his prophetic moments at St. Helena, truly remarked, "England should look wholly to commerce and to naval affairs; she never can be a continental power, and in the attempt must be ruined let her maintain the empire of the seas, and she may send her ambassadors to the courts of Europe, and demand what she pleases."

There are other forcible reasons which enhance the value of the Colonies; especially the existing density in England of four hundred mouths on each square mile of arable surface, and a population still further increasing in the United Kingdom at the rate of nearly a mouth every minute, or upwards of one thousand a day beyond the deaths, which makes emigration a matter of state policy as well as individual necessity, if we would avert the evils of a social or servile war, which is inevitably caused by an excess of inhabitants in any country.

If England had no foreign possessions or waste lands, the extrusion of the excessive population might be the sole object, even if the surplus went to enrich and strengthen a rival state; but when there are millions of acres ready for the plough in different parts of the empire, it seems suicidal to transfer, or suffer to be transferred, to another nation, the Of the two million emigrants who have quitted the United blood and bone of our own Kingdom within the last twenty-four years, four-fifths have strengthened the power and added to the wealth of the United States of America. When emigration is left to itself, men of small capital, the bold and the energetic, are the first to quit their native home, society thus becomes weakened, and less able to bear with accumulating difficulties, the pressure on the labour market, which alone required relief, is increased by the departure of the employers of labour; capital, unable to find secure and profitable investment at home, seeks its interest in foreign lands, the mysterious link which unites national with individual weal is destroyed, a democratic spirit looks to political changes for social amehoration, and the whole frame-work of society becomes unhinged A state paper addressed by Lord Bacon to James I in 1606, contains reasons for emigration, and for the planting of new settlements, which well deserve consideration in the present day. "An effect of peace in fruitful kingdoms where the stock of people receiving no consumption nor diminution by war doth continually multiply and increase, must, in the end, be a surcharge or overflow of people more than the territories can well maintain, which many times insinuating a general necessity and want of means into all estates, doth turn external peace into internal troubles and seditions. Now what an excellent diversion of this inconvenience is ministered to your Majesty in this plantation of Ireland (colonies), wherein so many families may receive sustentation and fortune, and the discharge of them out of England and Scotland may prevent many seeds of future perturbation; so that it is as if a man were troubled for the avoidance of water from the places where he had built his house, and afterwards should advise with lumself to cast those floods, pools, or streams for pleasure, provision, or use. So shall your Majesty in this work have a double commodity in the avoidance of people here, and in making use of them there."

Our Colonies offer a noble field for British industry. They could sustain with ease an addition of one hundred million to their present population. In the Canadas there are not six individuals to each square mile of area, in Australasia not three, in Southern Africa not two. Wordsworth's beautiful lines are peculiarly appropriate at the present time:—

" As the element of air affords An easy passage to the industrious bees. Fraught with their burdens; and a way as smooth For those ordained to take their sounding flight From the thronged hive, and settle where they list-In fresh abodes their labour to renew: So the wide waters open to the power, The will, the interests, and appointed needs Of Britain, do invite her to cast off Her swarms, and, in succession, send them forth, Bound to establish new communities On every shore whose aspect favours hope, Or bold adventure, promising to skill And perseverance their deserved reward. Change, wide and deep, and silently performed, This land shall witness; and, as days roll on, Earth's universal frame shall feel the effect, Even to the smallest habitable rock Beaten by lonely billows, hear the songs Of harmonized society, and bloom With civil arts that send their fragrance forth, A grateful tribute to all-ruling Heaven -Book IX Excursions

From seven to eight million sterling are now annually expended in the United Kingdom in the support of two million paupers, if a portion of that sum were appropriated towards the conveyance of a part of the able-bodied poor to the less populated parts of the empire, a grievous burthen, which is now weighing down the energies of the country, would be converted into a source of wealth and strength to the nation; unprofitable consumers would become producers of food and other exchangeable articles, demanding in return British manufactures, and the waste lands of the Crown would become sources of national and individual prosperity. Two hundred million sterling have been levied by law and expended for the relief of the poor in England and Wales, between the years 1815 and 1849. The sum which it costs to maintain a pauper in England would convey him to another part of the Empire, where he might in the same space of time be a useful consumer instead of a waster of capital.

Every tree felled, every acre cultivated, in our Colonies, furnishes additional employment for the looms, shipping, and commerce of England; and our rich possessions in the East and West Indies are capable of furnishing an inexhaustible supply of tropical and other products, so much in demand throughout Europe and America. By judiciously directing the stream of emigration where it may fertilize our own waste lands, we not only provide for the immediate exigencies of a superabundant population, but we preserve to ourselves the main element of national strength, and thus render it conducive to the permanent welfare of the Empire.

China, Japan, Corea, Cochin China, and Siam—containing nearly one-half the population of the globe, are scarcely yet known to us; and our possessions in the Pacific and Indian Oceans may be the means of opening the door for extensive intercourse with those vast regions.

Again, the Colonies afford a wide sphere of action for enterprising or restless spirits, who, with good education but limited means, are desirous of improving their condition. How many young men of good family, and of industrious habits, have found honourable and lucrative employment in the East and West Indies, North America, Australia, &c. The East Indian and Colonial Civil Services contain many able and distinguished servants of the crown, whose minds, expanded by their position, fit them for the government of an empire; and the Anglo-Indian army of two hundred thousand men is commanded by military officers whose science, skill, and prowess is unsurpassed by that of any other army in the world.

There are few counties in the United Kingdom in whose soil wealth acquired in the colonies has not been invested. British India alone, in payment of military, civil, and other charges, pensions, &c, has remitted to England in bullion and produce at least three milhons sterling per annum for the last fifty years, making the enormous sum of £150,000,000. Sir Charles Forbes, whose name is revered at home, and almost worshipped in India by the affectionate and grateful people of that vast country, as the just, generous, and unswerving advocate of their interests, declared in Parliament, when deploring the lamentable inattention too generally evinced to their welfare, and the absence of a policy conciliatory to their feelings, that "the wealth which England has obtained from the natives of India would, at compound interest, pay off the National Debt" The balance of trade, the private fortunes made abroad, and the savings of civil and military men, are, generally speaking, spent "at home"

By means of her colonies England is enabled to assume a high national position; and should, unfortunately, a general European war arise, she is independent of every foreign country for the supply of the necessaries or luxuries of life, or for the raw materials required for her manufactures.

In estimating the political value of our colonies, it must not be forgotten that their possession gives an enlarged tone even to the minds of those who have never quitted the shores of Britain. Mere islanders, whose views and thoughts are limited to the narrow territory in which they dwell, acquire contracted ideas, unsuited to the policy of a great nation, but England exists in each quarter of the globe—her people become familiarized with the distant regions of the earth, and a national spirit in fostered, eminently conducive to the creation and preservation of a vast empire.

Throughout the greater part of the globe a stupendous moral, as well as political, revolution is working for some great end. England is not only the heart of a mighty empire, whose branches and roots extend to the uttermost parts of the earth, she is also the "nursing mother" of nations yet in their infancy, and on her righteous fulfilment of this responsible duty, depends alike their future welfare and her own. If true to her trust, she may, under Divine Providence, be the instrument of establishing peace—extending civilization—and disseminating the inestimable blessings of Christianity throughout the world.

R. M. MARTIN.

THE BRITISH COLONIES.

BRITISH NORTH AMERICA.

BOOK I.—EASTERN AND WESTERN CANADA.

CHAPTER I.—HISTORY.

THE British dominions in North America ritories, Vancouver's Island, Queen Charcomprise an area of 4,000,000 square miles: lotte's Island, and other islands and districts their extreme length between east and west of the Rocky Mountains, each of which west, from the Atlantic to the Pacific, is will be separately described. 3,000 miles, and from north to south, 2,000 The statements of the Norwegians, or States; and on the east, the Atlantic Ocean on the 11th of October, 1492

ridians 52° and 141° W.

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miles. The boundaries of this vast region Danes, having visited the coast of America are, on the north the Arctic Ocean and the in the tenth and eleventh centuries, and adjacent seas and islands, many of them yet colonized "Vinland," or New England, unexplored, on the north-west, Russian are too vague and unsatisfactory, to deprive America; on the west, the Pacific Ocean, Columbus of the honour of having been the on the south, the territories of the United first discoverer of the western hemisphere The southern boundary is defined (see explorations of this truly great man were map) by an irregular line drawn from the restricted to the West India Islands and a extreme end of Vancouver's Island, extend- portion of the middle and southern part of ing along the parallel of 49° N to the head the adjacent continent, which received its of Lake Superior, thence through the centre name from Amerigo Vespucci, who, in 1499, of that lake and the centres of Lakes Hu- visited some parts of the coast. The disron, St. Clair, Erie, the Falls of Niagara, coverer of the northern portion of the conand Lake Ontario, to St. Regis on the St timent of America was Giovani Gaboto, Lawrence, 60 miles S. W. of Montreal, generally called John Cabot, a Venetian, thence along the parallel of 45° N to some in the service of Henry VII. of England, Highlands, which divide the waters that flow who, with his three sons, sailed from Bristol into the Atlantic from those that flow into in May 1497, having under his command the St. Lawrence; from thence to the source two caravels and five ships laden with goods of St. Croix, and to the mouth of that river for traffic, supplied by the merchants of in Passamaquoddy Bay in the Gulf of Fundy. London. Cabot sailed to the westward in the The whole country hes between the parallels expectation of reaching "Cathay," or China, of 41° 77' and 78° or 80° N., and the me- but to his surprise, on the 24th of June, 1497, made the coast of America, discovered The British territory is divided into the Newfoundland, sailed as far N. as 67° 30, provinces or districts known as the Canadas, in hope of finding a passage to the Pacific, Eastern and Western, or Upper and Lower; then steered to the southward, and entered New Brunswick, Nova Scotia, Cape Breton, the Gulf of St. Lawrence in search of a sup-Prince Edward Island, Newfoundland, the posed north-west passage. After taking Coast of Labrador, the Hudson's Bay Ter- possession of the country in the name of

ENGLISH AND FRENCH DISCOVERIES IN AMERICA.

Mexico and Peru by the Spaniards

captain, visited the north coast of America, themselves of this permission to form a settlement at Canseau In 1525 foundland to Florida, landed in Nova Scotia, possession of the country for his royal masor silver, was coldly received, and died in obscurity. Henry VIII in 1527 fitted out an expedition to discover a north-west paswas lost, and no settlement was made

flag engaged in the fisheries Jacques Cartier, a navigator who had been to France, where he soon died. fishing on the banks of Newfoundland, re-

with him two Indians.

Cartier was well received, and sent by his sovereign in the ensuing year to the St. Lawrence. (so called on account of its dis-

England, Cabot returned in August, 1497, covery on the day of the festival of that with ten natives (whom he brought from saint) with three larger vessels, and accom-Newfoundland or Prince Edward Island), panied by a number of young gentlemen as and was knighted by the king Sir John adventurers. The explorers entered the Cabot made three subsequent voyages, but river St. Lawrence in August, and anchored no settlement then took place on this part off Quebec, then called Stadaconna, and the of the North American continent, the tide abode of an Indian chief, named Donnaof European adventure being directed to conna. Cartier here quitted his ships and proceeded up the river in boats. On the 3rd In 1500 Gaspar Cortereal, a Portuguese of October, he reached an island, which he named Mont Royal (now Montreal), refollowed the track of Sir John Cabot, and turned to his ships, where he wintered, kidnapped several of the Indians or natives, called the coast St. Croix, and in 1536 whom he sold as slaves In 1502 Hugh Elliot seized Donnaconna, and two other chiefs, and and Thomas Ashurst, English merchants, conveyed them with eight natives to France, were authorized by Henry VII to estab- where they all died. The precious metals hish Colonies in the countries discovered by not having been discovered, the French Cabot, but they do not appear to have availed sovereign made no further efforts to occupy In 1518 the country until 1541, when an expedition, Baron de Lery, a Frenchman, landed cattle at the renewed entreaties of Cartier, was sent at Isle du Sable, and meffectually attempted out to colonize La Nouvelle France, or Canada, so called from the Iroquois word Giovanni Verrazano, a Florentine, and Kanata, signifying a collection of huts, Gomez, a Spaniard, in an expedition fitted which the early discoverers mistook for the out by Francis the First, coasted from New- native name of the country Francis I. gave the command of the expedition to François proceeded as far as 50° N, and, regardless of de le Roque, Siegneur de Roberval, who was the prior claim of England, took formal appointed the viceroy of his sovereign in Canada, Hochelaga (Montreal), &c. In July, ter, under the title of "La Nouvelle France" 1542, the viceroy arrived in Canada, built a Verrazano, like Cabot, returned without gold fort about four leagues above the Isle of Orleans, but the destructive effects of scurvy which appears to have afflicted all the early colonists, and the deadly hostility of the Insage to the East Indies one of the ships dians, in consequence of the kidnapping of Donnaconna and other Indian chiefs in The valuable fisheries on the banks of 1536, prevented any permanent settlement. Newfoundland had early attracted the at- Robertal was recalled by Francis I. to astention of European nations, and in 1517 sixt in the war against Charles V., and there were about fifty vessels under the Jacques Cartier, after an unsuccessful at-English, French, Spanish, and Portuguese tempt to form a settlement at St. Croix, In 1534 returned runed in health and fortune

After the death of Francis I., Roberval, ceived a commission from Francis the First, accompanied by his brother Achille and a sailed with two vessels of 60 tons each numerous train of enterprizing volunteers, from St Malocs, April 20, arrived at New- embarked for Canada in 1519, but having foundland, May 10; remained there ten days, never been heard of since, are supposed then sailed to the northward, subsequently to have perished at sea. The idea of discovtook a southerly course, passed through the ering a north-west passage to the Pacific Straits of Bellisle, traversed the Gulf of St. Ocean, still filled the minds of the people of Lawrence, on the 24th of July erected a Europe; in 1575 Davis explored the Straits cross surmounted by a fleur-de-lys, and on which bear his name, and in 1576, queen the 25th of July sailed for France, taking Elizabeth, ever bent on taking the lead of every other nation, sent out Martin Frobisher, with three ships, on a voyage of exploration. Frobisher discovered the Straits bearing his name, and finding some mundic or copper pyrites, which he mistook for queen of England was read in different lanthree vessels to explore the coast of Labra- and to the dominions of the crown of Engdor and Greenland, with a view to the dis-land it has ever since been attached the Indian race.

In 1578, the expectation of discovering extensive gold regions, induced the merchants of England again to send forth Frobisher, with fifteen vessels The expedition being attended with as little success as the preceding one, caused the ruin of many adventurers, who received, as before, copper

ore, instead of gold

In 1579, queen Elizabeth, desirous of obtaining some advantage from the discoveries of Cabot, granted to Sir Humphrey Gilbert, half-brother to Sir Walter Raleigh a patent for "the discovering or occupying and Hind, for Sable Island, to search for swine, peopling such remote, heathen, and barbarous countries as were not actually possessed by any Christian people" Sir Humphrey is described by Haliburton, as "a man of prepossessing manners, commanding esteem and veneration at first sight," he was celebrated for courage and prudence, genius and learning, eloquence and patriotism, and Elizabeth was so pleased with his conduct Humphrey, at an advanced age, proceeded that her majesty presented him, as a mark with sir John Popham to fit out a fleet for of peculiar favour, an emblematic jewel, consisting of a small gold anchor with a large pearl at the peak, which Sir Humphrey ever Kenebec river (state of Maine), where disafter wore at his breast from personal attachment agreed to join him, but before the time of departure withdrew from their engagements. disappointments, he sailed with several vessels, one of which foundered at sea and compelled the return to England of the expedition, where misfortune pressed hard upon landed on Sable island, and proceeded to the gallant adventurer. To assist him in again proceeding to sea, Sir Humphrey granted the lands he was to occupy in turn to France, without revisiting Sable America, and then sold his estate in England, by which he was enabled to sail from ished but for a French ship being wrecked Plymouth on the 11th June, 1583, with five there, which contained provisions for their ships and 250 men. On the 11th July, the sustenance, until they could kill seals, and fleet arrived off Newfoundland, and on Monday, August 5, proceeded in state to the king of France sent a vessel to look after take formal possession of the island, in the his subjects, twelve only were found alive, presence of the masters and merchants whose miserable condition induced the king of 36 vessels of different nations, then in to pardon them on their arrival in France. the harbour of St. John's. A tent was pitched on shore, the commission of the trade with Canada, and other privileges to M.

gold, he returned with a large quantity to guages, a turf and twig were then delivered England. In the ensuing year Frobisher to him, and sir Gilbert declared the island was despatched by some merchants with of Newfoundland to belong to his sovereign, covery of a north-west passage He returned, Obedience having been promised by the however, with only 200 tons of the supposed people with loud acclammations, a pillar, gold ore, and a man, woman, and child, of with a plate of lead and the arms of the queen engraved thereon, was erected, a tax levied on all ships, and three laws promulgated for the colony. 1st, for the celebration of public worship, according to the Church of England ritual, 2nd, declaring that anything which might be attempted prejudicial to the queen of England was, according to the laws of England, treason, and 3rd, that the uttering of words to the dishonour of her majesty was to be punished with the loss of ears and confiscation of property On the 20th August, Sir Humphrey sailed from St John's, with the Squirrel, Delight, and and cattle, said to have been landed there thirty years previous. The Delight was lost on a sand-bank, and no cattle being procurable, Sir Humphrey determined on proceeding to England, but the Squirrel, which he commanded in person, foundered in a storm, and all on board (above 100 persons) perished. Sir John Gilbert, brother to Sir the revival of his brother's claim, and in 1607 they wintered on a small island in the Many friends tress and cold killed sir John Gilbert, and his followers returned to England.

France made renewed efforts for the ac-Undeterred by quisition of territory in this part of the North American continent, and in 1598 Henry IV sent out the marquis de la Roche with a number of convicts, forty of whom he explore the adjacent coasts. But unfavourable weather compelled the marquis to reisland, where the convicts would have percatch fish for their support. Seven years after

In 1600 Henry IV. granted an exclusive

Chauvin in 1603, Sieur de Monts, a Calvinist. from the colony. received from Henry IV a further patent, out an armament to carry on the fur trade, as Sault St Louis Trading posts were established at different places, Acadia, or Nova Scotia, was visited, and on the 3rd July, 1608, Samuel Champlain founded Quebec as the future capital of New France

The French unhappily took part in the contests of the Iroquois, or Five Nations, with the Algonquins, who, supplied with fire-arms by Champlain, were enabled to carry on a destructive contest, which tended so rapidly to depopulate the country, that in 1622 Quebec did not contain fifty persons The first child born of French parents in Quebec. was the son of Abraham Martin and Maigaret L'Anglois, who was christened Eustache

on the 24th October, 1621.

To remedy the distressed condition of the colony, which had heretofore been confided to the charge of two or three individuals, called the "Company of One Hundred Partners," composed of clergy and larty, and was not conveyed to the colony. headed by the celebrated cardinal Richelieu, whose leading principles were, in the first christianity, and in the second, the extension of the fur trade and commerce generally, and the discovery of a route to the Pacific Ocean, and to China through the great rivers and lakes of La Nouvelle France

The king, on the 19th April, 1627, granted Canada to the company, with extensive privileges as a feudal seignory, to be acknowledged by the presentation of a crown of gold, of eight marks weight, on the accession of every sovereign to the throne. With to be created nobles by the king. the right of soil, a monopoly of trade was granted, but French subjects were permitted the free exercise of the whale and cod fisheries on the coast, and such colonists as were not servants of the company,

Chauvin, a naval officer, who associated with skins to the factors of the company, who himself M. Pontgrave, a merchant who had were compelled to purchase them at 40 sous made several profitable trading voyages for a piece. A Jesuit corps was supported by furs, to the Saguenay river, and other places the company, and "Protestants, and other m the St. Lawrence. On the death of heretics and Jews," were rigidly excluded

The company engaged to send over to La conferring on him the exclusive trade and Nouvelle France, in the following year government of all the territories between (1628) two or three hundred workmen of 40° and 54° N. lat, totally regardless of the all kinds, and before 1643 to augment the prior claims of England De Monts fitted number of French inhabitants to 16,000; to lodge, maintain, and find the emigrants under Pontgrave and an enterprising naval in all necessaries for three years,—then officer, named Samuel Champlain, which to make an equal distribution among them sailed up the St. Lawrence in 1603, as far of all cleared lands, and to furnish them with seed according to the wants of each family In every district three priests were to be supplied by the company, with all necessaries both for their persons and missions for fifteen years, after which cleared lands were to be assigned for their main-The territorial rights of the comtenance. pany extended over Canada, and part of Florida, the company might erect fortifications, cast cannon, and make all sorts of arms, grant lands, annex titles and rights, but the erection of duchies, marquisates, earldoms, and baronies, required royal letters of confirmation. The king granted the company two ships of war, of two or three hundred tons each, to be victualled by the company The ships were to be paid for, if within the first ten years the company did not convey 1,500 French of both sexes to Canada was transferred to an association, Canada, and the charter was to be void, if within the last five years an equal number

A subsequent ordonnance enlarged the privileges of the company: merchandise place, the conversion of the heathers to manufactured in Canada, was, on importation into France, to pay no duty for fifteen years; natives of the colonies were to be deemed entizens of old France; tradesmen or mechanics, after being employed six years by the company, were, on their return to France, to be privileged to carry on their business in Paris, or elsewhere; ecclesiastics, noblemen, and others, might associate with the company, without derogation of honour, and twelve of the partners of the company were

These arrangements were frustrated by David Kirtck, a French Calvinist, who sought refuge in England from religious persecution, fitted out an English armament in 1627, and captured eighteen French transmight trade with the Indians for peltries ports, with 135 pieces of ordnance, destined (skins) provided they brought all beaver for Quebec and other places belonging to the company. Next year Kirtck captured commissioner, an apostolical vicar, and four Port Royal, in Acadia (Nova Scotia), visited Tadoussac, destroyed the cattle, and plundered the houses at Cape Tourmente, and proceeded to Gaspe bay, where he met M. de Roquemont, one of the hundred partners, commanding a squadron of vessels freighted with French emigrants, and filled with pro-Kirtck provoked Roquemont to fight; the French were defeated, and the whole fleet captured. The colonists at Quebec suffered greatly by this disaster, and their distress was increased by the shipwreck. on the coast of Nova Scotia, of a vessel laden with provisions for their relief. Kirtck aided by some other English vessels commanded by his two brothers, proceeded up the St. Lawrence, and on the 29th July, 1629. took possession of Quebec, whose famishing inhabitants were then existing on five ounces of bread a day.

The value of the conquest was at the time but little appreciated, the attention of England being directed to the more southern part of the continent of America, the French opened a negotiation; peace was restored, and by the treaty of St Germains, in 1632, Charles I. relinquished to Louis XIII. the right which England had always claimed, by reason of the discovery of Cabot, to this portion of America; upon which Canada, Acadia (Nova Scotia), and Isle Royal (Cape Breton), were re-occupied by the French, between whom, and the English in the adjacent states, rivalry and internecine hostilities were frequent, notwithstanding the peaceable relations existing between the home governments

In 1644 Montreal was ceded to the religious order entitled the St. Sulpicians of Paris, the monopoly of the company of a hundred partners gradually broke down, colonization was extended by a growing attention to agriculture taking the place of the almost exclusive consideration heretofore given to the fur trade, and in 1663 the company having become obnoxious, by reason of their arbitrary proceedings, the king of France abolished the company, and converted Canada into a royal government. M. de Méry was appointed governor, and proceeded from France to Quebec, with 400 regular was bound to carry out a sufficient number troops, 100 families as settlers, horses, cattle, and implements of agriculture The administration of the colony was changed from an ecclesiastical mission to a secular declared to be entitled to the same rights in government by the great Colbert, and under France and in the colonies as if they had

other gentlemen, were formed into a sovereign council, to which was entrusted the jurisdiction of all causes civil and criminal. according to the laws and ordinances of France and the practice of the parliament of Paris, the regulation of commerce, and the expenditure of the public monies. emigration of French settlers was promoted by every possible means, and a martial spirit was imparted to the population by the location in the colony of the disbanded soldiers of the Carrignan regiment (1000 strong), and of other troops, whose officers became the principal seigneurs on condition of their making cessions under the feudal tenure to the soldiers and other inhabitants.

Louis XIV, aided by the politic Colbert, desirous of establishing Frenchmen in every part of the globe, founded a West India Company, with powers and privileges somewhat similar to those granted to the English East India Company. The regions recited in the patent of the West India Company, as the fields for operation, were the country from the river Amazon to the Orinoco, the Antilles, Canada, L'Acadia, both continent and islands from the north of Canada to Virginia and Florida; also the coast of Africa, from Cape Verd to the Cape of Good Hope, "so far as the said company may be able to penetrate, whether the said countries may now appertain to France, as being or having been occupied by Frenchmen, or in so far as the said company shall establish itself by exterminating or conquering the natives or colonists of such European nations as are not our allies" Louis XIV. agreed to advance one-fourth of the whole stock without interest for four years, subject to a proportion of all losses which might be The West incurred during that period. India Company was to enjoy a monopoly of the territories and trade, and an exclusive navigation, conceded for forty years, and to receive a bounty of thirty livres on every ton of goods exported from France. The company was authorized to levy war against the Indians or foreign colonies in case of insult: to build forts, raise and maintain troops. grant lands, commute seigneurial dues, and it of priests and to build churches and houses for their accommodation. All colonists and converts professing the Romish faith were the royal jurisdiction, the governor, a king's been born and resided within the kingdom.

BARBAROUS PROCEEDINGS WITH THE INDIANS.

pany soon excited general dissatisfaction in panied the French! Canada, and on the 8th April 1666, a royal arret of the council of state granted to the Canadians the trade in furs, subject to an allowance of one-fourth of all beaver skins, and one-tenth of all buffalo skins, and the total reservation to the company of the trade of Tadoussac, at the mouth of the Saguenay

The colony was kept in continual alarm by the war waged by the Canadians against with the English colonists at New York For purposes of military defence, the colonists by a royal edict were directed to concentrate their settlements, and no lands were permitted to be cleared or cultivated but such as were contiguous to each other. this accounts for the peculiar military style of the French Canadian townships The wars with the Indians were carried on with great barbarism on both sides. In an incursion made by the marquis de Tracev into an Iroquois settlement, the Indians saved themselves by flight, but the old men, women, and children were slaughtered and a Te Deum thereon celebrated in the cathedral of army, consisting of 28 companies of regular troops and the whole militia of the colony, marched 700 miles in the midst of winter, from Quebec into the Mohawk territory for the purpose of utterly extirpating the Indians. As usual the Indian warriors escaped, but the sachems (old men), women, and children, were massacred For every human scalp delivered into the war department a sum of forty livres was paid

The Canadians, however, not unfrequently experienced the revengeful fury of the Indians. Charlevoix in his history of La Nouvelle France, when describing the atrocities committed by the Indians, says-" Ils ouvrirent le sein des femmes enceintes pour en arracher le fruit qu'elles portoient, ils mirent des enfans tout vivant a la broche et contraignerant les mères de les tourner pour

The arbitrary proceedings of this com- make soup for the Indian allies who accom-

The contests of the British and French colonists were carried on through their respective Indian allies, and for several years the tide of success was in favour of the French, as the British were by nature not o well adapted for conciliating the natives. The hostilities waged by the Indians were destructive to the scattered colonists: setting little value on life, they fought with desperation, and gave no quarter; protected by the Mohawk Indians, who were in alliance the natural fastnesses of their country, they chose their own time for action, and when they had enclosed their enemies in a defile. or surprised them amidst the intricacies of the forest, the war-whoop of the victor, and the death-shriek of the vanguished, were simultaneously heard, and while the bodies of the slain served for food to the savage. the scalped head of the white man was a trophy of glory, and a booty of no inconsiderable value to its possessor.

> In 1683, the Mississippi, which had been previously visited by the French missionaries from Montreal (in 1673), and by fur hunters from Quebec, under the guidance of the Indians, was navigated to the sea by M. de On another occasion a French la Salle; and all the country watered by that vast river claimed for France under the title of Louisiana, in honour of Louis XIV

The British colonists in Albany became alarmed at the success and increasing strength of the French, not only in Nova Scotia, where hostilities were almost incessant with the English at Massachussetts, but also by their occupation of the two great rivers, the St Lawrence and the Mississippi, and their successful prosecution of the fur trade and fisheries, then deemed the chief source of wealth in North America population of Canada, which in 1674 did not exceed 8,000, including the converted Indians, had rapidly increased, and the intermarriages of Frenchmen with the natives, enabled the government of Quebec to command at all times, a large force of Indian warriors. As an illustration, one instance may les fair rotir." The colonists, frequently be noted: the baron de St. Castine, formerly taken by surprise, had their houses, cattle, an officer of the Carrignan regiment, of and crops destroyed, and thousands of the prepossessing appearance and noble spirit, French were slain. The French, reinforced took up his abode with the Indians, learned from Europe, sent a strong force in Febru- their language, adopted their customs, ary, 1690, who massacred the greater part married an Indian wife, and lived with them of the unresisting inhabitants of Shenectady. for twenty years. The Indians made the According to Colden (page 79) the Indians baron their chief, they looked upon him as whom the French took prisoners at She- a tutelar deity, and during his abode with nectady, were cut into pieces, and boiled to them, were ready to devote their lives to his

service. hunting were brought to him by the savages for many years it was the favourite boast of in large quantities, and he supplied them in a Canadian—that he had been employed in return with European goods. The baron accumulated a large fortune, gave good downes to his daughters by the Indian wife. whom he married to Frenchmen, and was always ready with a chosen band of warriors to accompany the troops of the governorgeneral of Canada, against the British and their Indian allies.

The French, feeling more secure in their dominions, pushed forward their outposts with vigour, by means of the fur traders, who established fairs in the different towns. especially at Montreal, to enable the Indians periodically to dispose of their furs trade was open to all the colonists, subject to a contribution of one-fourth of the beaver, and one-tenth of the buffalo skins, to the king of France, which right his majesty sold to certain patentees or farmers-general The trade at the distant posts, whence the Indians could not bring their furs, was licensed and granted as a bounty to old officers, or to the poor gentry of the colony, and these licences were sold for 600 crowns. to inland merchants or traders, who were thus authorised to convey merchandise into the interior of the country for barter, and the purchaser of the licence was bound to employ two canoes, with crews of six men each, who were entitled to provisions and per cent had been reimbursed to the merlicence, was merchandise to the amount of 1,000 crowns, which the seller of the licence had the right of furnishing, at an advance of 15 per cent on the market price A successful adventure gave the merchant who bought the licence, 400 per cent. profit on his outlay, and 600 crowns to each of the canoe-men—hence, a spirit of adventure to the fur trade as a means of obtaining money to clear and stock a farm, though it was too frequently dissipated in riot or debauchery; a bold and hardy race of colonists was trained to danger, accustomed to the forests, familiarised with long and intricate inland navigation, and intimately associated with the Indians, with whom they frequently

The skins and furs collected in companying the regular French troops, and an expedition against the English, on the "Belle Riviere," or on the "Ohio"

The injurious effect of these proceedings was so great, that the British colonists at Albany were preparing to abandon their territory, when the New England colonies agreed to form a coalition for their mutual defence. A mission was despatched to London, explaining the views of the New Englanders, and soliciting aid towards the naval and military expedition, which was organising for the destruction of the French settlements in Canada and Nova Scotia.

The attack was to combine two expeditions—one to proceed by land and inland navigation against the southern frontier of the French, the other, consisting of a frigate mounting 40 guns, another ship of 16, and a third of 8 guns, with transports for the conveyance of 800 to 100 men, in all about 34 vessels—against the French seaboard: the expedition cost the colonists £150,000 The naval force was confided to the charge of Sir William Phipps, a man of considerable ability, who had raised himself by persevering energy to a high station Mr. Haliburton says that he was the son of a blacksmith at Pemaquid in New England; born in 1650, and apprenticed to a carpenter to learn shipbuilding. On the expiration of clothing, and who shared legally in the re- his indentures he built a vessel, which he turns of the adventure, after the cost of navigated himself, and hearing of the wreck licence and merchandise, and a profit of 400 of a Spanish ship near the Bahamas, containing bullion, made an unsuccessful atchant The extent of trade attached to each tempt to raise it In 1683 Captain Phipps was sent by the English government in search of another Spanish wreck, in which he was also unsuccessful. Five years after, the Duke of Albemarle, then Governor of Jamaica, provided him with the necessary apparatus, and sent him to renew his search for this valuable wreck, which was reported to contain much wealth. After many fruitarose; the canoe-men, or voyageurs, looked less endeavours Phipps was about retiring to Jamaica, when a sea-feather growing out of a rock, attracted the attention of some sailors who were crossing the reef in a small boat A diver was sent to fetch it up, who, on descending, found several guns at the foot of the rock, and on a second descent obtained a quantity of silver. Phipps raised from the wreck thirty-two co-operated in their attacks on the British tons of silver bullion, and a large quantity settlements. In this desultory warfare the of gold, pearls, and jewels, which had been Canadian militia were always desirous of ac-lying in the sea for more than half a century. Phipps was knighted by James II., cording to Colden, he might easily have a colonial expedition against the French in was to have been made on Montreal simullanders against the French in Canada, whose native allies, advanced towards Montreal. proceedings we are now detailing. On the the river St. Charles.

made sheriff of New England, and on his captured. Owing to some misunderstandsolicitation entrusted with the command of ing, or want of concert, the attack which Nova Scotia, in which he was unfortunate; taneously with that on Quebec, did not take and he subsequently obtained the command place; but in the following year (1691) of the fleet fitted out by the New Eng- the Iroquois, aided by some English and The military command there was then held 20th of May, 1690 (according to Halibur- by De Callière, an able officer who was very ton), Sir William Phipps and his squadron popular with his Indian neighbours, having appeared before Port Royal in Nova Scotia. even joined them in their war dances, and Manival, the French Governor, having only spared no pains to ingratiate himself with 80 men and very insufficient defences, sur-them; in which he appears to have been so rendered, as did also the Governor of Ched- successful, that when mustering his troops abueto, and the commanders of other posts for defence, 800 Indians assembled to aid in Acadia and Newfoundland Phipps like- him at the Prairie de la Magdeleine. The wise captured several posts on the Saint Iroquois, nevertheless, succeeded in cap-Lawrence and was within a few days' sail of turing several of the advanced posts and Quebec before the alarm spread thither a considerable number of prisoners; but Frontenac, the Governor, hastened from were eventually obliged to retreat, though Montreal with reinforcements, and strength- they long afterwards continued to make ened the defences, which consisted of little sudden inroads upon the colony in every beyond rude intrenchments of timber and direction, headed by a favourite chief named mounds of earth. On the morning of the the Black Cauldron; but their incursions 16th of October, 1691, Sir William reached were greatly checked by Frontenac's juthe shores of Quebec, and summoned it to dicious distribution of military posts. The surrender the summons was unhesitatingly treaty of Ryswick in 1697, by which peace rejected, yet the English, who had previously was concluded between Britain and France; evinced so much activity, now appear to produced a temporary cessation of hostilities have been strangely remiss, for no hostile in Canada, but with the renewal of war measure was taken until the 18th, when between the mother countries in 1702, they Phipps landed 1,500 men on the banks of recommenced, and the English, elated by the The French, with successes of Marlborough and Eugene, and only 300 irregulars, kept up a brisk firing, alarmed by the rapidly increasing number which caused much loss to the British, of the French colomists, then amounting to though at night they retreated into the 15,000, conceived the bold design of emtown, leaving them masters of the field bracing within their territory the whole of The larger vessels anchored off Quebec, and North America. The wars in which Louis directed a cannonade against the upper part XIV. was engaged compelled him to leave of the city, which they renewed the follow- the Canadian government very much to its ing day, but with little effect. Meantime own resources De Callière, who had sucthe ships had sustained considerable dam- ceeded Frontenac, died in 1703, and the age, and about noon the squadron moved Count de Vaudreuil was appointed governor up the river beyond Cape Diamond. The in his stead He was a man of great ability, troops previously continued to advance, and but his policy, like that of his predecessors, Phipps sent on shore six pieces of ordnance, was to extend, in every possible manner, the and pushed forward his men in hopes of French dominion; to cut the English off capturing the place by means of land bat- from the fur trade, and gradually to hem But the French militia harassed them in between the highlands of Nova them severely, and maintained so steady Scotia and the Alleghany Mountained. The and destructive a fire from behind some English now called upon their allies of the pahsades that the English commander, con- "Five Nations" to renew hostilities against sidering further advance hopeless, re-em- their old enemies; but these tribes were barked his troops on the 22nd, leaving exceedingly unwilling to move, and alleged, behind their cannon and ammunition. that when they concluded a treaty, they did Phipps has been much blamed for not at- so with an intention to keep it; while the tacking the body of the place, which, ac- Europeans seemed to enter into such engagecountry from below Quebec to Lake Huron.

hsh frontier, and destroyed a village named the royal expense, sailed from Boston bay bled his troops, and would have carried the the history of Nova Scotia. The English war into the enemy's country, but his allies lost 15 men, besides 26 who were wrecked objected, and he then turned all his atten- in a transport at the entrance of the har-British formed a chain of posts from New left to garrison Port Royal, and on the 26th York, occupied in great force lakes George October the expedition returned to Boston. descent upon Canada, and made every pre- busily engaged strengthening the fortificabest security for the maintenance of their Harley, the English minister.

ments solely with the view of immediately insecure. The British government resolved breaking them. One chief intimated his to give the New Englanders stronger supsuspicion that both nations were drunk, port, in their endeavours to expel the French They did little, therefore, of themselves, or from Canada and Nova Scotia; in 1710 an by their own impulse; and when called upon armament was fitted out for a combined to join in an expedition, came slowly and attack on Canada by sea and land, and on reluctantly forward. At this period the abo- the 18th September, a fleet, consisting of the rigines were numerous and powerful Tribes Dragon, Leostaff, Feversham, and Chester of Abenaqua, Algonquin, Iroquois, Mississa- men of-war, the Star-bomb and Massasaqua, and Huron Indians, occupied the chussetts, provincial galleys, with fourteen transports in the pay of Massachussetts, five In 1709 a plan for the conquest of Canada of Connecticut, two of New Hampshire, was approved by the parliament of queen three of Rhode Island, a tender, and five Anne, and authority and resources deemed English transports, with one regiment of sufficient for its accomplishment, were sent marines from England, and four regiments to New York. De Vaudreuil, who had some of provicials raised in New England, but time before made an incursion on the Eng- commissioned by the queen, and armed at Hewreul, or Haverhill, was on the watch, for Port Royal, in Nova Scotia, where it and soon learned that 2,000 English had arrived on the 24th September, 1710. The issued from New York, and were to be joined particulars of the siege, and capitulation of by an equal number of savages he assemt he French governor, Subercase, belong to tion to strengthening his own frontier. The bour: 200 marines and 250 volunteers were and Champlain, erected forts to protect their Meanwhile, the Count De Vaudreuil was paration for attacking Montreal; but a large tions, constructing barracks, and training body of the forces whose assistance they ex-militia, amounting to 5,000 in a population pected, being required for the war on the of 25,000 Much apprehension was felt by continent of Europe, and the Iroquois the Canadians notwithstanding the strength having, in a general council, come to the of Quebec, which was deemed so impregnable determination that the prolongation of strife that a proposed attempt for its capture was between the two European nations was the one of the articles of impeachment against independence, which would in all proba- of the British were frustrated by an unforebility be lost if either became dominant, seen disaster, arising partly from tempestuous suddenly deserted them; the English, in weather, and partly from their ignorance of consequence of this double disappointment, the coast, in one day (22nd August) 8 weakened also by a pestilential fever which transports containing 884 officers, soldiers had broken out among them, and was said and sailors, were wrecked at the Seven to have been caused by the Indians poison- Islands, near the mouth of the St. Lawrence, ing the water of which they drank, were and the remaining vessels returned to Boscompelled to abandon the enterprise; and ton. General Nicholson, had already taken after destroying their forts they returned to the field, at the head of the land forces, but New York. The interval of peace between on learning the loss of the fleet, he fell back the rival colonies was, however, of very brief on New York. The English colonists, again duration, and the French were employed defeated, still persevered, and were making during the greater part of it in barbarous fresh preparations for renewing hostilities, and exterminating warfare with an extensive when the change of ministry in England, tribe, called the Outagamis, or Foxes, whom and the treaty of Utrecht on the 13th March, they did not succeed in wholly destroying, 1713, reheved Canada for a time from furand whose incursions, though carried on by ther apprehension, for by this treaty England a mere remnant, rendered their communica- resigned her claim to Canada, and France tion with their settlements on the Mississippi hers to Acadia and Newfoundland, and

the sovereignty of the Five Nations, which she having never been able to enforce, and England being in that respect equally powerless, was a merely nominal concession.

This treaty was the commencement of a new epoch for Canada, and the unusual period of tranquillity which followed it, caused a great increase in her agriculture and commerce. In 1720, Quebec had a population of about 7,000, and Montreal of 3,000 Nineteen vessels cleared from Quebec, laden with peltries, lumber, tar, tobacco, flour, pork, &c., and four men-of-war were built in the colony. From Charlevoux's description of the city, which he visited in 1720-21, part of the upper and lower towns must have islands were still covered with forests. The society generally, he describes, as gay and sociable, consisting chiefly of military men, and the lower order of noblesse, all poor, adapted for practising the most agreeable render their administration worth detailing. ways of spending money, than the more and disappear almost at the same moment Below Quebec, the banks of the St. Lawrence were laid out in tolerably cultivated only 800 inhabitants; the city of Montreal was rapidly extending, and was in a great degree protected from the incursions of hostile Indians by the barriers formed by the villages of Sault St. Louis, and Montgomery, which were inhabited by friendly tribes. French officers and soldiers.

made over to England her assumed rights to his judgment in the attention paid by him to the agricultural and commercial interests of Canada, an unusual feature in the policy of a French governor, their general aim being to extend the dominion. and strengthen the power of France by conquest and military rule; while the English. on the contrary, strove rather to establish themselves by the arts of peace.

In the following year (1726) he was succeeded by the Marquis de Beauharnois (a natural son of Louis XIV.) whose ambitious administration excited yet more the alarm and jealousy of the English colonists of New York and New England, while the intrigues of the Jesuits with the Indians contributed not a little to bring about the final struggle been built, but the adjacent shores and for dominion on the American continent, between the two most powerful nations of Europe. De Beauharnois continued in office for twenty years, and was followed by a succession of governors, whose tenure of office and likely to continue so, being much better was too brief, and comparatively uneventful, to

The war between Great Britain and laborious methods of making it. They saw France in 1745, led to the reduction in that their English neighbours steadily employed year of Cape Breton, by a British naval and in accumulating wealth, but consoled them- military force, combined with the provincial selves with the reflection that they did not troops of the New England colonies; but the know how to enjoy it. Their favourite em- successful battle of Fontenoy roused the ployment was the fur trade, the only one martial spirit of the Canadians to attempt indeed at all adapted to their excitable the re-conquest of Nova Scotia, in 1746 and natures and desultory habits, but the little 1747, in which they failed, and the treaty of fortunes they occasionally made thereby, Aix-La-Chapelle in 1748 for a time suswere compared by Charlevoix to the hillocks pended hostilities. Commissioners were then of sand in the deserts of Africa, which rise appointed to settle a boundary line between the British and French territories in North America.

The object of the French was to confine seigniories. Trois Rivières then contained the English within the boundary of the Alleghany mountains, and thus prevent their approach to the Lakes, the St. Lawrence, the Mississippi, (where the former had now established themselves) and their tributary streams. The local Government, without any authority from home, and with Above Montreal there were only detached a display of military pomp, calculated to imstations for defence and barter with the In- press on the minds of the Indians the idea Fort Cataraqui, or Frontenac, on that France would assert her right to the Lake Ontario, appears to have stood in the territory thus marked, proceeded to survey midst of an uncultivated country, without the projected line of demarcation between any settlements in its vicinity. At Niagara, the possessions of France and those which Charlevoix speaks of a cottage dignified with the Canadian governor was pleased, in his the name of a fort, and guarded by a few liberality, to assign to England; leaden plates, bearing the royal arms of France. In 1725 the Marquis De Vaudreuil died, were sunk at stated distances, and the whole after having ably administered the affairs of ceremony was concluded with much for-Canada during 22 years. He had shewn mality. Such an important step, it may be

imagined, seriously alarmed the Indians, as rope; detachments of regulars, militia, and well as the English, and ultimately led to Indians were despatched by the marquis to their active co-operation for the utter exture co-operation for the utter exture the Ohio; fort Du Quesne (actually within pulsion of the French from North America.

In pursuance of the line of policy marked out by the French counsels at home and in Canada, the Jesuits intrigued with the Acadians or descendants of the early French inhabitants, with the view of prevailing on them to guit Nova Scotia, and migrate to a military post recently established beyond its frontier, on the Canadian side, where a new colony was to be formed, in aid of which the royal sanction was granted for an appropriation of 800,000 livres. Cornwallis, the governor of Nova Scotia, soon convinced the French that he was aware of their proceedings; he erected a fort opposite the French frontier, near the bay of Fundy, on the river Beaubassin, which he placed under the command of major Laurence, and seized at the mouth of the St. John river, a vessel laden with supplies for the French. While these measures were in progress, the French commenced enforcing their power along the line of demarcation they had marked out, three individuals who had licences to trade from their respective English governors with the Indians, on the Ohio, were seized by the French, and carried prisoners to Montreal, whence, after severe treatment and strict examination, they were at length liberated, with injunctions not to repeat their trespass on the French territories.

The intrigues of the Jesuits with the Iroquois to detach them from the English, were so far successful that the Indians permitted the French to erect the fort La Presentation, near their border; and, but for the extraordinary influence exercised by William Johnston, the wily character of the Canadians might have gone far to frustrate the confederacy forming between the English and Indians for the expulsion of the French. The arrival of the Marquis du Quesne de Menneville, in 1752,* as governor of Canada, Louisiania, Cape Breton, St. John's, and their dependencies, and the openly aggressive spirit he displayed, gave indications that hostilities might soon be expected in Eu-

Indians were despatched by the marquis to the Ohio; fort Du Quesne (actually within the Virginia territory) and other posts were erected, in the hope of keeping the English within the Apalachian or Alleghany mountains; and from Ticonderago, Crown Point, and Fort Niagara, the most ferocious attacks were made on the peaceable English settlers, + notwithstanding the treaty of Aix-la-Chapelle in 1748. The British, though still acting on the defensive, were not idle; a fort was built in the vicinity of Du Quesne fort. quaintly termed Necessity, and a garrison was despatched from Virginia, under the command of George Washington, whose name has since become so illustrious, and who then held a heutenant-colonel's commission. Washington, on his march to assume the command of Fort Necessity, was met by a reconnoitring party from Du Quesne fort, under M. de Jumonville, who peremptorily forbade the English to proceed further. The mandate was answered by a volley of musketry, which killed Jumonville and several of his men. The French commandant at Du Quesne, Monsieur Contrecœur, besieged Fort Necessity, and obliged Washington to capitulate. England at that time was openly preparing for war with France, which the ambition of Frederick of Prussia and the state of Europe soon rendered general. A strong fleet, with troops and warlike munition, was despatched to reinforce Quebec; an English fleet pursued it, and succeeded in capturing two frigates, with the engineers and troops on board, on the banks of Newfoundland.

The Marquis du Quesne having resigned, he was succeeded in July, 1755, by the last French governor in Canada, the Marquis de Vaudreul de Cavagnal, whose administration commenced by the defeat of the brave but rash general Braddock, on the 9th of July, 1755, in one of the defiles of the Alleghany Mountains. Braddock, accustomed to European, rather than to Indian warfare, neglected the accustomed precaution of scouts and advance posts; and refused to make the needful preparations

to their separate local governments) was held at Albany in July, 1754, when Benjamin Franklin drew up a plan for uniting the States, establishing a quota, and levying men and money throughout the different Colonies to resust the French, which, though not then acted on, became subsequently the basis of the federal union formed for the overthrow of the British dominion in America.

[•] In this year a 74 gun-ship was built by the French government in Canada, but owing to some mismanagement she was hogged in launching near Cape Diamond. Two cargoes of Canadian wheat were shipped at the same period for Marseilles; the arrival of which was naturally hailed with great satisfaction in France.

[†] It was at this period that the remarkable convention of the British colonists (then vulnerable owing

against the French and their Indian allies, who, when the devoted British had entered a gorge, where retreat was almost impossible, poured from their ambuscades a deadly fire, under which the soldiers of the unfortunate Braddock fell rapidly, without even the satisfaction of seeing or meeting their foes. The death of their leader was the signal that further advance was hopeless; and Colonel Washington, the second in command, succeeded by a strenuous and skilful effort in rescuing the remainder of the British army, who were afterwards joined by 6,000 provincial troops, under general Johnston and governor Shirley. Johnston. with the intention of investing Crown Point, joined general Lyman near Lake George, where they were attacked by 3,000 French, under the command of Baron After a contest of four hours' duration, the French retreated to Crown several wounds, his conduct was highly comthe drooping spirits of the British army, and helped to train the provincials, who were brigaded along with the regular troops, the very men by whose side they now fought The campaign of 1755 closed in October with the retirement of the British to Albany, without any attack on Crown Point France, fully aware of the importance of Canada, sent out early in the ensuing year a large who, after continued successes during the campaigns of 1756 and 1757, captured Forts Oswego and William Henry. Their triumph was, however, stained by the brutal concerned in it. by the tidings of this monstrous deed may

Pitt (afterwards earl of Chatham), then recently called to the head of affairs, proved himself a great statesman, and by his extraordinary powers of eloquence infused an energetic spirit into His Majesty's counsels, and so wielded the resources of the nation, that a rapid change came over the aspect of American affairs. Preparations were made on a great scale for the assistance of the New Englanders, and the campaign was opened upon a plan of combined operations by sea and land somewhat resembling that adopted in 1690. Three divisions, under generals of acknowledged talent, were to invade Canada at different points, of which the chief was that destined to attack Quebec, which being the capital of the French dominions, situated in the midst of a hostile country, rendered almost impregnable by its position and fortifications, and defended by 20,000 regulars and militia, besides Point, with a loss of 1,000 men and the numerous Indian allies, was considered the capture of their leader, who was severely most arduous undertaking of the whole war. General Johnston also received The officer selected by Mr. Pitt for the command of this detachment was General mended, and the honour of knighthood was Wolfe, who though only thirty-three years conferred upon him. This success revived of age, possessed a military reputation of long standing, having distinguished himself at the battle of Lafelt when only twenty. At the siege of Louisburg, in the preceding for the contest they were soon to wage with year, he had established his character as an officer of extraordinary ability, for though not first in command, being present only as brigadier-general, his exertions mainly conafter reinforcing the garrison of Oswego, but tributed to the obtainment of this important position. The naval forces destined for the attack comprised twenty sail of the line, two ships of fifty guns, twelve frigates, and body of chosen troops under the command fourteen smaller vessels, under the command of major-general the Marquis de Montcalm, of admiral Saunders; and by this fleet the soldiers of Wolfe, amounting to 8,000 veteran troops, were safely conveyed to the Isle of Orleans.

The Marquis de Montcalm made vigorous massacre of nearly 2,000 English prisoners preparations for the defence of Quebec; his by their Indian allies, sanctioned, it was armed force consisted of about 13,000 men, asserted, by the French, though the chival- of whom six battalions were regulars, and rous character of De Montcalm renders it the remainder well disciplined Canadian highly improbable that he could have been troops, with some cavalry and Indians; his The feelings excited army was ranged from the river St. Lawthroughout England and North America rence to the Falls of Montmorenci, ready to oppose the landing of the British. be conceived, and the deep abhorrence felt possessed also a few vessels of war and some towards those who, if they did not actually fire ships, with which an attempt was made permit it, at least appeared to have taken to destroy the English fleet, but they were no active measures for its prevention, tended caught by grappling irons, and towed safely materially to accelerate the downfall of past. The strength of De Montcalm's de-French dominion in Canada. The elder fences was proved by the unsuccessful attempt made by Brigadier-general Monckton, meeting the British in battle array on the who occupied Point Levi, opposite Quebec, to bombard the capital; and, again, by the the return of 2,000 men dispatched by him as failure of the attack of the 31st of July, headed by Wolfe, on the entrenchments at to Cape Rouge, nine miles above Quebec. Montmorenci, in which the assailants were repulsed with a loss of 182 killed and 650 wounded, including 11 officers killed and 46 wounded. The boats, it is said, in which the British landed, were accidentally delayed—the grenadiers rushed forward too the British. The eagle eye of Wolfe took eagerly,—and the French, strongly posted, and aided by many Indian riflemen, poured He knew that for him retreat was next to on them a destructive fire, which compelled impossible; yet while directing his main their retreat. Wolfe keenly felt this disappointment, and expressed in his despatches division, he skilfully covered his flanks, and home, his doubt of being able to reduce Quebec during that campaign, as the fleet, his strongest arm, was ineffective against the rocky wall on which the citadel stood, and the positions of the French were, moreover, guarded by troops more numerous than his own. As soon as he had partially recovered from a violent fever, caused by grief and anxiety acting on a feeble frame, he called a council of war, in which it was agreed to act on the bold suggestion proposed by General Townshend, of attempting to gain the heights of Abraham, which commanded the weakest point of the city Wolfe accordingly commenced operations, and conducted them with an address, secrecy, and presence of mind, rarely equalled. He deceived the French by still appearing to direct his whole attention to the Montmorenci entrenchments, and at nightfall on the 12th of September, 1759, the troops, consisting of the 15th, 22nd, 28th, 35th, 40th, 43rd, 45th, 47th, 48th, 58th, 60th (2nd and 3rd battalions), and 78th regiments, with a corps of rangers, embarked in two divisions; the boats dropped silently down the river, and the troops landed in safety at the place now called Wolfe's Cove. Here a new difficulty presented itself—the ascent was so precipitous that Wolfe is said to have doubted its being practicable; but the soldiers led by Frazer's Highlanders, and aided by the branches of shrubs and roots of trees growing among the rocks, succeeded in reaching up in regular order. De Montcalm, maddened by finding his vigilance had failed in guarding this important pass, lost his usual prudence, and seeing that his opponent had cited feeling can account, resolved upon heady current of battle can conceive -

plains of Abraham, without even waiting a corps of observation under De Bougainville. The French sallied forth from their almost impregnable fortress without field artillery, and with a heat and precipitation which, under the circumstances, strangely contrasted with the coolness and precision of in at a glance all the details of his position. attention to the steady advance of his right endeavoured to preserve their communication with the shore. Both armies may be said to have been without artillery, the French having only two guns, and the English a light cannon, which the soldiers had dragged up the heights with ropes; the sabre and the bayonet accordingly decided the day, and never was the nervous strength of the British arm more manifestly displayed. The agile Scotch Highlanders powerfully wielded their stout claymores, and filled the place of cavalry, while the steady fire of the English fusileers compensated, in some degree, the absence of artillery the part of the French 1,500 light infantry, and some Indian riflemen, advanced first, and began a desultory fire, but the British reserved their shot for the main body, and opened no general fire in return until their opponents were within forty yards. They then discharged a deadly volley, which Wolfe followed up by charging with the bayonet, at the head of the grenadiers of the 22nd, 40th, and 50th regiments, who had acquired the honourable title of Louisburgh grenadiers. Although wounded by a ball in the wrist, and another in the groin, and suffering from fever and dysentery, he still pressed on against the French, who fought with fury heightened by the fanaticism excited in them by the priests against the English heretics. The heroism of De Montcalm was as conspicuous as that of his illustrious opponent; both headed their men-both the summit, where they were speedily drawn rushed with eagerness wherever the battle raged most fiercely, and often by their personal prowess and example changed the fortune of the moment-both acutely sensible of the responsibility of their respective gained so much by hazarding all, he, with positions, and stimulated by the enthusiasm an infatuation for which only strongly ex- which only those who have mixed in the

manders received their death wound. whispering, "Support me ' let not my brave soldiers see me drop." He was carried to some distance in the rear; his eyes were waxing dim, and the life-blood ebbing fast his fleeting spirit. "Who run?" he eagerly inquired. "The French," was the reply. Then, said the general, "Pray, do one of you run to colonel Barton, and tell him to march Webbs' regiment with all speed down to Charles river, to cut off the retreat of the also penshed, rejoicing in his last moments that he should not live to witness the surrender of Quebec; and both the conquerors loss of their brave and beloved commanders. General Townshend thus wrote home respectlost but a friend in general Wolfe; our country a sure support and a perpetual honour. If the world were sensible at how dear a price we have purchased Quebec in his death, it would damp the public joy. seemed not to promise that he should remain long among us. He was himself senand determined to crowd into a few years life." The contest had scarcely ended when De Bougainville appeared in the rear; but he perceived that the fortune of the day was decided, and retreated without attempting to retrieve it. On the 18th Quebec capitulated. The French lost about 1,500 men killed and wounded. The loss of the British was as follows:—1 general, 1 captain, 6 lieutenants, 1 ensign, 3 serjeants, and 45 rank and file killed; and 1 brigadier-general, 4 staff officers, 12 captains, 26 lieutenants, 10 engineers, 25 serjeants, 4 drummers, and

though repeatedly wounded still pressed on a large force, and reduced Ticonderago and at the head of their men, till almost, at the Crown Point; while General Prideaux, aided same moment, both of these gallant com- by Sır Wılliam Johnston, with a body of A Indian troops, took Niagara—and thus ended ball entered the breast of Wolfe, who, faint the campaign. In the spring of 1760 gen-with the loss of blood, reeled, and leant eral De Levi having assembled an army of against the shoulder of one of his officers, regulars and militia amounting to 12,000 whispering. "Support me' let not my brave men, advanced to the heights of Abraham. and prepared to besiege Quebec, which had been left under the command of general Murray with a garrison of about 5,000 men, from his strong and generous heart, when but whose numbers had been greatly reduced the cry of "They Run! THEY RUN!" rent by sickness. Relying on the bravery of his the air, and seemed to stay for a moment troops, and fearing, perhaps, that his fortifications were not sufficient to withstand the cnemy, general Murray quitted his fortress with about 3,000 men to give De Levi battle; but overpowered by numbers he was compelled to return to Quebec, with the loss of 1,000 men and all his field artillery. fugitives. Now, God be praised ' I shall die French, it is said, lost 2,500. De Levi then happy" The patriotic soldier then closed his besieged the town, but Murray held out eyes, and expired. The gallant Montcalm bravely until the arrival of a small squadron under admiral Swanton on the 15th of May, compelled the precipitate retreat of De Levi. The French army then concentrated itself m and the conquered joined in deploring the Montreal; but being enclosed by the three divisions, viz., that under General Amherst, and those from Quebec and Niagara, the French mg the British hero .-- "I am not ashamed could no longer maintain their ground, and to own to you, that my heart does not the Marquis de Vaudreuil on the 8th of exult in the midst of this success. I have Scotember, 1760, was compelled to sign a capitulation surrendering to the British the whole of Canada. The population of Canada then amounted to about 69,000, including 7,400 converted Indians, and were described by general Murray as a frugal, industrious, Our best consolation is, that Providence and moral race, with a noblesse also very poor, but much respected. The land chiefly cultivated was a comparatively narrow strip sible of the weakness of his constitution, on the banks of the St. Lawrence. No people ever had juster cause of gratitude for actions that would have adorned length of a change of government than the Canadians in the present instance. The colonists were suffering severely from rapacity and misgovernment. Bigot, the French Intendant, or king's financier, and his creatures, plundered the colonists in all possible ways: r paper currency, termed card-money, based on the responsibility of the king of France, for the general support of the civil and military establishments of the colony, and which, from having been faithfully redeemed during a period of thirty years, enjoyed unlimited credit, enabled Bigot to conceal 506 rank and file wounded. The expe- for a long time his waste and peculations; ditions by land were also successful. Gen- and while the British were capturing Canada eral Amherst marched from New York with by force of arms, the French monarch was



THE RICHT BOY FORD BRIDFORT

destroying the commerce and prospects Americans, attempted the conquest of Cacent. on the original value.

forming such a new era in civilised warfare that an admiring world admitted the claim of Great Britain to the glory of conquering a people, less from views of ambition and the security of her other colonies, than from the hope of improving their situation, and endowing them with the privileges of free-

At first the English civil law was introduced, and all offices were conferred on British subjects, then consisting of military officers and about 500 petty traders, who treated with contempt even the French noblesse, many of whom were fine specimens of the French gentlemen of the "old school." General Murray, the first English governor of the province, strongly protested against the home policy, which was at length altered, and in 1774 the "Quebec Bill" was passed, which restored to the French, in civil matters, the ancient system called the Coutume de Paris, established a legislative council for the regulation of all matters except taxation, and substituted a modified oath of allegance for the previous oaths of her without interruption, Arnold's troops abjuration and supremacy.

A new cause of disturbance again involved the Canadian colonists in the horrors of war, for they were ere long called upon to defend their territory from the very men who had assisted them in acquiring it from the French. The refusal of the New Englanders to contribute their share of taxes levied by French Canadians vied with the oldest Brithe British government, mainly for the tish soldiers in zeal and energy; and the purpose of defraying the expenses incurred little garrison of 1,800 men, of whom only in the capture of Canada, unless permitted 350 were regulars (including 230 of Frazer's to send representatives to the British parliament, with other reasons which it is not within the scope of this work to detail, led M'Lean), 450 seamen, and the remainder a to their declaration of independence, and gallant band of Canadian militia and armed the formation of the United States republic, artificers, awaited with calm confidence the New Englanders, henceforth to be termed the summoned the citadel to surrender and re-

of his subjects by dishonouring the bills of nada. Towards the close of the summer of exchange of the Intendant to whom he had 1775, the American forces, amounting to granted absolute power; thus involving in 4,000 men, invaded Canada by Lake Chamruin those who possessed any bills or paper plain, and from the sources of the Kennebec currency, which at the conquest amounted river. The main division, under brigadierto nearly £4,000,000 sterling, the only compensation received for which was four per cessful; Montreal, Chambly, St. John's, Longuaeil, and other posts then of impor-Civil and religious liberty was granted to tance were captured, and all the military the Canadians: and in the words of the stores and provisions at Montreal and on the writer of the Political Annals of Canada, rivers fell into their hands. The smaller "previous history affords no example of such division of the American army under colonel forbearance and generosity on the part of Arnold, consisting of 1100 men, sailed up the conquerors towards the conquered— the Kennebec, and after traversing with great difficulty the forests and swamps of Maine, where their sufferings from hunger were so intolerable as to induce them to eat the flesh of dogs, and the leather of their cartouche boxes, arrived at Satagan on the 4th of November, and on the 8th reached Point Levi, opposite Quebec, whose inhabitants were perfectly ignorant of their approach. Quebec was at this moment almost defenceless, and had Arnold been able to cross the river, in all probability it must have been captured; but, fortunately, the shipping had been removed to the other side, and the news of its danger reached the city while there was yet time to prepare for its defence. General Carleton, the British governor, was meanwhile occupied in endeavouring to repulse general Montgomery, who, having made himself master of Montreal, turned his attention to effect a junction of his own division with that of Arnold.

The British general, by a masterly manœuvre, passed quietly down the river, and reached the citadel on the 19th of Novemhaving previously crossed the St. Lawrence a short distance above Quebec, taken possession of the environs, and encamped at Pointe aux Trembles, 21 miles from Quebec, awaiting Montgomery, who on his arrival assumed the command of both divisions. Carleton was welcomed in Quebec with great joy; the Highlanders, who had settled in the country and were re-embodied under colonel which was no sooner established than the attack of the combined forces. Montgomery

a blockade was commenced, which lasted throughout the whole month of December. when the Americans held a council of war, and decided upon a night assault. The besiegers divided into two storming parties, and, headed by Montgomery and Arnold, snow-storm, from opposite points, intending to unite near Prescott gate, and after forcing it proceed to the upper town. As they apcompelled their retreat. at first revealing any traces of the enemy, across the frontier. for the falling snow had thrown, as it were, colonists, and perished in attempting to deprive the British of the fortress he had previously aided them in acquiring.

led on his division, carried the first barrier, and pushed on to the second, but being made some ineffectual attacks; but the dis- sonal surety in which we are most interested;

ceived an immediate refusal, upon which embarcation, early in May, of supplies from England obliged the Americans to retreat to Montreal, and enabled Carleton entirely to

expel them from Canada.

At the time of the invasion there were not more than 900 regular troops in the British colony, and the greater part of these suradvanced, during the raging of a furious rendered in Forts Chambly and St. John, or were taken while retiring from Montreal. Such, however, were the feelings of the Canadians, on account of the honourable proached the gate the assailants led by Mont- treatment experienced from the English gomery became crowded in the long narrow government, after the conquest of the colony pass leading to the gate of the fortress, and from the French, that they cheerfully exa confused noise, mingling with the conflict erted themselves to preserve Canada to of the elements, struck the watchful ear of England, thus affording another illustration the outer sentinel, who, receiving no answer of the wisdom of humane and generous to his challenge, roused the guard. Mont- policy. It was only on the 7th September. gomery, with great quickness, formed his that the Canadian officers of militia received men for the assault, but the Canadian mi- their commissions; but their activity and htta, aided by nine British seamen to work zeal made amends for the tardiness with the guns, opened a tremendous fire from the which confidence had been reposed in them, battery which commanded the path, and and of 1,500 defenders of Quebec, 800 were The besieged, militia men. When the Americans evacunevertheless, unable to ascertain the real ated the province, they had about 8,000 state of affairs, continued their cannonade men, but the Canadian militia and regulars until every sound in answer to their fire had presented to them an organised force of died away. The morning dawned without 13,000, and thus compelled their retreat

On the termination of the American war, a mantle over the dead bodies of the brave in 1783, many royalists sought refuge in Montgomery and the gallant soldiers who Upper or Western Canada, where lands were had fallen by his side. His death was ren- freely granted them in the Western districts, dered the more striking by the circumstance adjoining the great lakes. In 1790-91, Mr. of his having, sixteen years before, served Pitt, to gratify the strongly expressed desire under Wolfe on the heights of Abraham, for representative government in Canada, but on his marriage with the daughter of and for the adoption of English institutions, Judge Livingston he joined the cause of the divided the province into two districts; the Western being called Upper, and the Eastern Lower Canada. The representative assemblies were elected by 40s, freeholders, which Arnold had also been unsuccessful. In a was nearly equivalent to universal suffrage, desperate assault on the first barner on the but the proposed counterpoise by the cre-opposite side he had been severely wounded, ation of an hereditary noblesse, including and taken off the field; but captain Morgan the most respectable of the French seigneurs, was prevented by the opposition of Mr. Fox, whose recommendation of a hemmed in by a detachment of British and council chosen by the crown for life, was Canadians in the rear, captain Morgan with adopted. The first House of Assembly in his men, to the number of 426, surrendered Lower Canada, consisting of 50 members, without reaching Prescott gate, where the was held in 1792. The object of Mr. Pitt governor had taken his stand. The death in dividing the province was evidently to of their commander greatly dispirited the conciliate the feelings, and even prejudices, Americans, and though Arnold endeavoured of the French Canadians, who, in 1778, in a to maintain his position little was done until memorial to the crown, thus expressed April, 1776, when a reinforcement of 2000 their sentiments:-"It is our religion, our men arrived under general Wooster, who laws relative to our property, and our per-



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THE TRINITY HOUSE TONDON

and these we enjoy in the most ample man- through the chief-justice of Montreal, dener by the Quebec bill. We are the more clared that slavery was inconsistent with the averse to a House of Assembly, from the laws of the country, and that all slaves in fatal consequences which will result from it. Can we, as Roman Catholics, hope to preserve for any length of time the same pre- propitious for capturing Canada, by reason rogatives as Protestant subjects in a House of the discontent which existed, especially of Representatives? and will there not come a time when the influence of the latter will overbalance that of our posterity? In this case should we and our posterity enjoy the same advantages which our present constitution secures to us? Again: have we not reason to dread lest we should soon see those taxes levied upon the estates which are at present actually levied upon articles of commerce, which the inhabitant pays indirectly it is true, but in proportion to what he consumes? Shall we not fear that we may one day see the seeds of dissension created by the Assembly of Representatives, and nourished by those intestine hatreds which the opposite interests of the old and new subjects will naturally give birth to?"

The Legislative Council of Lower Canada for some time governed the colony, and the Representative Assembly was merely the register of its acts; and previous to 1807 the Council made large grants of land to Assembly, and to gain this concession they ministration. Legislative Council, was suppressed, by the imprisonment of the printer, and the destruction of his types and presses. Six indesire to redress existing grievances, and pose of combating Napoleon. his sympathy with the men who were struggling for freedom, and who in 1803, had, summoned the Canadian parliament, ap-

anada should receive their liberty.

In 1812, the Americans, thinking the period in Lower Canada, at the conduct of Sir James Craig, resolved to declare war against England, and invade Canada, where it was supposed the mass of the people would be disposed to receive the Americans with open arms. Dr. Eustis, secretary-at-war, said in Congress-" We can take the Canadas without soldiers; we have only to send officers into the provinces, and the people disaffected towards their own government will rally round our standard," and Mr. Clay stated-"It is absurd to suppose that we shall not succeed in our enterprise against the enemy's provinces. We have the Canadas as much at our command as Great Britain has the ocean We must take the continent from them I wish never to see peace till we do"

The proceedings of the United States government of that day were totally un-The Marquis Wellesley, then justifiable. Secretary of State for Foreign Affairs, recomplaints were made, that the members of ceived intelligence from different parts of America during the year 1811, that the themselves; the Assembly demanded that the Americans were preparing to invade Canada. judges being dependent on and removable On the 24th June, 1812, it was known at Queby the government should not sit in the bec that war was declared between England and America; and the Canadians rose with a offered to defray from the funds of the noble spirit, in defence of England and of colony, the whole expense of its civil ad- their country. They might have availed This was refused by the themselves of the disturbed state of Great governor and representatives of the crown Britain—they might have joined, on their with indignation, the Assembly was dis- own terms, the United States, and formed a solved, and a French newspaper, termed the portion of the Congress-but their efforts "Canadian," which had censured the pro- were those of a generous nature, which, forceedings of the government, and of the getting the injuries, remembered only the benefits, received from England. Four battalions of militia were instantly raised,-the Canadian Voltigeurs (a fine corps especially dividuals were also taken into custody, but suited to the country) were organized and never brought to trial, and the period was equipped in the short space of six weeks, by not mappropriately called the "reign of the liberality of the younger part of the Caterror." In 1811 a new Assembly was con- nadian gentry, from among whom they were vened; it persisted in the same demands, gallantly officered; thus a spirit of military when fortunately for all parties, general Sir enthusiasm was infused into the whole pop-James Craig, who had been governor-lation, and an example held up to the settlers general from the 24th October, 1807, was in Upper Canada, highly important at a in the 14th September, 1811, replaced by crisis, when the regular troops of England Sir George Prevost, who at once expressed a were drained from the colonies for the pur-

Sir George Prevost, the new governor,

forefathers, and their ardent love for the true interests of their country. The Canadians responded to the appeal, and were expressly thanked by his royal highness the Prince Regent for their support and attachment-his royal highness declaring, that "relying with confidence on the courage and loyalty of his majesty's Canadian subjects, he was equally fearless of the result of any attack upon them, or of any insidious attempt to alienate their affections from the

mother country."

On the breaking out of the war, Upper Canada was partly peopled by emigrants from the United States, who might be supposed unwilling to shed the blood of their kındred; the people of Lower Canada had but recently been represented by authority as seditious, or so hable to be turned from their allegiance as to endanger the govern-There were only about 4,000 British troops in both provinces, scattered along a frontier of 1,300 miles, and the St. Lawrence, an immense military highway, open to the United States, and leading into the heart of Canada, was undefended, thus endangering the safety of the British forces stationed on its borders. With the view of keeping up the price of bills of exchange, of which the military government was the chief vendor, the specie of the country had been suffered to be carried into the United States, which materially added to existing To remedy this and prepare difficulties. for defence, the legislature was assembled. and government paper, bearing interest, and payable in bills of exchange on England, was substituted for specie.

The arrival of two battalions, for the purpose of relieving two others under orders for their departure, added to the regular force. At the instance of the government, a law had passed during the preceding winter, for drafting the militia for actual service, and four weak battahons had been assembled before the war. Every description of force was prepared for service; the citadel of Quebec was garrisoned by the inhabitants of the town, proud of the duty and of the confidence of the government. In a month after the declaration of war, the lower province seemed capable of becoming the assailant. The Americans had collected, in the summer

pealed to its honourable spirit, to the attach- commanded by general Hull, one of the few ment of the people to the religion of their remaining officers of the war of Independence, was joined by militia and volunteers, who had set out on their march for Upper Canada, before the declaration of war. invaders made roads through immense forests, depending on them for their communications and supplies, and arrived at Detroit, on the fifth July, 1812, about 2,500 strong. On the 12th July, the enemy passed over into Upper Canada, took possession of Sandwich, and issued a proclamation to the apparently defenceless inhabitants. inviting them to join the American standard. or at least to remain mactive, assuring them, in either case, of the protection of the United After some trifling skirmishes with States. the handful of British troops stationed at Fort Maldon, which, under the command of heutenant-colonel St. George protected Amherstburg, and upon hearing of the consequences of the surrender of Michilmakinack, which drew upon the Americans the hostility of nearly all the Indians, general Hull became alarmed for his own safety, and returned to Detroit, where he shut himself up on the 7th of August. Sir George Prevost had entrusted the government and command of Upper Canada to general Brock, an able and active soldier, who strenuously supported the spirit of the loyal inhabitants. On the 5th August, Brock prorogued the parliament at York; on the 12th he was at Amherstburg; he crossed the frontier and was advancing to the attack of the fort of Detroit, when a white flag was held out, and general Hull and his whole army, who, it must be owned, were greatly reduced by sickness, surrendered to a force of 330 regulars, 400 militia, and 600 Indians. People were utterly amazed when they saw so considerable a part of the American forces marched captive into Montreal and Quebec, Two months after the surrender of Hull, the enemy had collected another force of 6000 men on the Niagara frontier. On the 13th October, this force crossed over into Upper Canada, at Queenston, and overpowered the small detachment stationed there. Brock, who was at Fort George, put himself at the head of a small party, hastened to the spot in advance of his army, and fell while valuantly, but ineffectually, resisting overpowering numbers. The enemy ob tained possession of the heights, but was of 1811, their principal regular force on their soon dislodged by the British troops on their north-western frontier ostensibly against the arrival, and 700 men surrendered at dis-Indians, whom they attacked. This force, cretion to general Sheaffe, on whom the

command had devolved. A temporary truce was made by general Sir G. Prevost on the ensued, which was interrupted by an attempt Americans at Sacket's Harbour, which, at invasion, on the 20th and 28th Novem-unhappily, led to a misunderstanding beber. near Fort Erie, by the American tween him and the naval service, productive general Smyth, with 4,500 men, which was of much evil to the British interest in the repulsed by lieutenant-colonel Bisshopp, Canadas during the remainder of the war. with 600 regulars and militia. An equally Their success encouraged the enemy, and unsuccessful attempt was made about the extraordinary exertions were made at this same time, by the British naval force on Lake period by the United States. Two corps Ontario, against Sacket's harbour. The were despatched under generals Winchester rest of the winter passed away without any and Harrison, by different lines, for the event of importance, except the capture, on seizure of Detroit and the adjoining disthe 22nd January, by colonel Proctor, after a tricts; Winchester, with about 1000 men, was the American general Winchester, on the Detroit frontier; and an assault on disaster; they, therefore, strained every the ice no sooner disappeared on Lake Ontario, than they came out with a superior the lake.

born landed with 2000 Americans, who, of the American army. In spite of many after a brave resistance on the part of delays, which enabled Harrison to strengthen general Sheaffe, and about 600 men, gained his position, colonel Proctor succeeded in possession of York (Toronto) the capital of greatly weakening the enemy's force, and Upper Canada, where they destroyed the removing all immediate danger of invasion. public buildings, carried off the artillery and Meanwhile Dearborn resolved upon driving naval stores, and wreaked their vengeance the British from Burlington Heights, and on a printing press, and the frame of a ship cutting off the communication between genbuilding for the British service on the lake. erals Vincent and Proctor, and on the 5th The enemy then proceeded to Niagara to of June, 4000 men under generals Chandler besiege Fort George, where they landed and Winder, took up their position at troops, and then returned to Sacket's Har- Stoney Creek, and with full confidence in bour, from whence additional forces were the superiority of their numbers, prepared conveyed to the same quarter, which suc- to attack general Vincent on the following ceeded in landing to the number of 4000 day. Lieutenant-colonel Harvey, after remen, in spite of the determined resistance connoitring the enemy's position, proposed of brigadier-general Vincent; who with only attacking it that night, and having obtained 1000 regulars and 300 militia, and a fort permission to do so, succeeded in surprising rendered indefensible by the severe fire it the American camp, with 704 bayonets; and had sustained from an American battery after killing and wounding a great number on the opposite side, still contested the of the enemy he retired, carrying with him ground, but was finally compelled to retreat both Chandler and Winder, and 120 men as to Burlington Bay, near the western ex- prisoners. This affair so thoroughly discontremity of Lake Ontario, leaving the whole certed the enemy, that they retreated to Niagara frontier, containing a very large pro- Forty Mile Creek, eleven miles distant, and portion of the population of Upper Canada, on being threatened by Sir James Yeo, who in the power of the enemy. During the was advancing with a squadron and a few taking of Fort George, an abortive attempt troops to the support of general Vincent,

smart action, of 49 prisoners, amongst whom arrived first, and colonel Proctor seizing the opportunity, hastily collected his forces, amounting to about 500 whites, and 450 Ogdensburg, which appears to have been Indians, gave the enemy battle on the 22nd intended as a prelude to an attack on January, 1813, and succeeded in gaining a Sacket's Harbour. From the time of the complete victory, capturing the general and surrender of Hull, the Americans, however 467 American soldiers, and killing and much they blamed that officer, seem to have wounding as many more; general Winbeen fully aware of the chief cause of his chester fell into the hands of a Wyandot Indian, who stripped off his uniform, adorned nerve to obtain control of the lakes, and his own person with it, and was with difficulty induced to make restitution.

Colonel Proctor reinforced his troops, and naval force from Sacket's Harbour, which, proceeded to the falls of Miami, where genfor a time, secured to them the possession of eral Harrison had taken up his position, and having learned the defeat of his associate. On the 27th April, 1813, general Dear- was awaiting succours from the main body vessels, carrying 22 guns, which were taken by the British at Isle aux Noix, after a the British.

On the 11th July a successful attack was made by the British on Black Rock, headed by colonel Bisshopp, who was mortally wounded while re-embarking; and on the 30th of that month colonel Murray destroved the American barracks at Plattsburg. But at this time the triumphs of the English were changed into reverses On the 10th of September commodore Perry. with a squadron of 9 vessels mounting 56 guns, captured the British naval force on Lake Erie. Colonel Proctor could therefore no longer obtain supplies, his only means of communication with the British army being by land, several hundred miles through forests.

His situation nearly resembled that of Hull, at Detroit; he had one advantage, however, which Hull had not-the friendship of the Indians, but he strangely delayed his retreat a fortnight after the loss of his fleet. and till the near approach of a superior force of the enemy. On the 5th of October he was only three days' march (56 miles) from Detroit, pursuing his retreat along the Trenche. His force consisted of less than 1,000 British and militia, and about 1,200 Indians, the greater number of whom gradually deserted him, whilst the Americans were upwards of 3,000 strong. He chose his position carefully, hoping thereby to neutralize the effect of superior numbers, but a sudden charge of mounted Kentucky riflemen broke the British line, the whole was thrown into confusion, and a large number of the British were made prisoners. The Indians who still remained with Proctor fought bravely, headed by their chief Tecumtheh, who had perseveringly endeavoured to unite all the tribes in a confederacy against the Americans. He is described as singu-

they retired to Fort George. From thence ished in the conflict with many of his faithheutenant-colonel Boerstler was sent with ful followers. The Americans returned to 700 men to seize an advanced post of the Detroit with their prisoners, and Proctor. English at Beaver-dam, but being attacked with a few stragglers and a number of Infirst by a body of Indians, and afterwards by dians, retired to Ancaster, and after rallying a few British troops, he surrendered himself about 200 men joined the army at Niagara. and his corps prisoners of war. The cam- The American forces gradually collected at paign continued some time without any the lower ends of Lakes Ontario and Chamevent of much moment, excepting the cap- plain under generals Wilkinson and Hampture, on 3rd June, 1813, of two American ton, with the intention of making a combined attack on Montreal, while the chief part of the British regular force was in Upper well contested action of three hours, and Canada. Major-general Hampton was to some other smaller advantages gained by advance with 6,000 men from Lake Cham plain, and major-general Wilkinson, with 8,000 men, from Grenadier Island, near Sacket's harbour. It was evident that if this attack succeeded, and the command of that city and the surrounding country should be retained by the Americans, Upper Canada was conquered, and every British soldier in it a prisoner, unless he could succeed in fighting his way to Quebec. nothing to prevent Wilkinson, with competent pilots for the rapids, from landing on the Island of Montreal with an army completely equipped in three or four days after his leaving Lake Ontario, and Hampton was only a couple of days' march from the St. Some misunderstanding, how-Lawrence ever, with respect to time appears to have arisen between them. On the 21st of October Hampton entered the province apparently with the intention of penetrating the St Lawrence, by the river Chateauguay. On the 26th he came upon colonel de Salaberry's position on that river, about 30 miles from the frontier. This officer, a native of Canada, belonging to one of its old and most distinguished families, had served with the British army in various parts of the world. To great activity and personal intrepidity he united military science and experience, and possessed the entire confidence of his little force, which formed the advance of the army, and consisted of about 800 men, chiefly natives of Lower Canada, and composed of fencibles, voltigeurs, militia, and Indians. The enemy, formed principally of new levies, seemed to think that the battle was to be won by field manœuvres, and platoon-firing. Colonel de Salaberry took advantage of all the protection for his men that the choice of position in a thickly wooded country afforded, and poured in a deadly fire, every man making sure of his object; the colonel larly brave and generous, and gifted with setting the example. The enemy's loss was extraordinary powers of eloquence. He per- considerable, but has never been correctly ascertained; that of colonel de Salaberry's | n a few weeks, and had all their supplies on force was, two killed and sixteen wounded. the spot, whilst the English vessels were Hampton, believing himself to be opposed built as slowly and regularly as if intended by a large force, retired to the frontier, and or the ocean, and a great part of the mathence to Plattsburg, where he remained in terials were obliged to be sent from Enga state of inactivity, his army dwindling and. The chief portion of the American away by sickness and desertion. General army were assembled on the American fron-Wilkinson, with his division, which consisted tier under the command of major-general of between 8,000 and 9,000 men, completely Brown, an officer who had greatly distinequipped and provided, left Grenadier Island guished himself during the war, having been on the 5th November in boats and other previously known in Lower Canada as a crafts, and having crossed Lake Ontario en- plain farmer and dealer in lumber and potered the St. Lawrence. At Williamsburg tash, and who had commanded Sacket's Harhe landed a considerable number of troops bour when attacked by Sir George Prevost. to clear the banks, and also to lighten the On the 3rd of July, at the head of between boats while descending the rapids These 3,000 and 4,000 men, he crossed into Upper delays gave time to detachments from the anada by Black Rock, and obtained posgarrisons of Kingston and Prescott to over- session of Fort Erie by capitulation. take him, and on the 11th of November a then marched towards Chippawa, where he large body of these, under major-general was met by the advanced guard of majorheaded a much smaller force sent from George, and thence in the direction of Bura long contest, were victorious; the Ameri- to invest Fort George, plundered the inhabicans retired to their boats, but continued to tants of the frontier, and destroyed the descend towards Montreal. Near Cornwall, thriving village of St. David's, but being their commander, major-general Wilkinson, disappointed of assistance from Sacket's received despatches from general Hampton, Harbour he fell back upon Chippawa. Genestating his determination of retreating to ral Riall, having received reinforcements, Lake Champlain; and finding, moreover, advanced, and on the afternoon of the 25th the hostility felt towards the Americans by the two armies again met near the Falls, the population generally, he gave up the and waged a long and bloody contest with idea of attacking Montreal during that cam- various success until nearly midnight. Gepaign, and took up winter quarters near neral Riall had ordered a retreat, when, in to proceed to Plattsburg, on Lake Cham- and after a new struggle the Americans plain. Hostilities were recommenced early retired to Fort Erie. The American force in the spring of 1814. Lieutenant-colonel engaged in this action, known as the battle unsuccessful attack upon them; and on the the latter 878. The British army then procourse of events in Europe, began to give a mond converted the siege into a blockade. new character to the war, and the offensive measures on the side of the United States be- enabled England to turn her arms more came almost confined to a part of the Upper powerfully against the Americans.

Boyd, encountered colonel Morrison, who general Riall, and obliged to retreat to Fort Kingston and Prescott. The English, after lington heights. The enemy then proceeded French Mills, on the Salmon river, but from the midst of the confusion, heutenant-genscarcity of provisions was ultimately induced eral Drummond arrived with fresh troops; Williams having taken post with 1,500 Bri- of Lundy's Lane, was about 4,000, that of tish on the river Colle, Wilkinson, who had the British, as stated by Drummond, 2,800. upwards of 4,000 men at Plattsburg, made an The total loss of the former was 854, that of 6th of May Sir Gordon Drummond gamed ceeded to invest Fort Erie, and on the 14th another advantage, carrying, though with of August Drummond made an unsuccessful some loss, the fort of Oswego, with which he attempt to take it by surprise, and lost captured a considerable quantity of ammu- several of his best officers and bravest men. mition and stores. The failure of the enemy's His total loss was 905, that of the enemy attempts on Lower or East Canada, and the only 84. After this unfortunate affair Drum-

The cessation of the European war had While Province. Although the British naval force the events just related were taking place on Lake Ontario had ventured out of port important operations were proceeding in during the preceding campaign, the advan- other parts of Canada. On the 26th of tages for naval warfare were entirely on the June, transports arrived at Quebec from side of the Americans, who ran up their ships Bordeaux with the 6th and 82nd regiments.

They were ordered to the Niagara frontier, defended. on the Richelieu River, and brigaded with the forces already in that quarter, under Great exertions had for United States. sides, to ensure a superiority on Lake Champlain. On the 3rd of September, the British army, amounting to 11,000 men, under Sir George Prevost, passed the frontier by Odell Town, and reached Plattsburg on the 6th, with trifling opposition, where the American general Macomb occupied a fortified position with 1,500 regulars, and as many of the inhabitants as could be collected from both sides of the Lake. From the 6th to the 11th, cannon were brought up from the rear, and batteries erected by the British.

On the 11th, the British flotilla from Isle aux Noix came up and attacked the American naval force in the bay; the land batteries opened at the same time, and the troops moved to the assault. When they had reached the heights on which the American works were situated, victory declared itself in favour of the American naval force. Sir George Prevost countermanded the orders for the attack; the next morning the whole army retreated, and on the 13th reentered the province, with a total loss of 235 men, exclusive of deserters, whose number on this, as on every occasion when the British soldiers entered the enemy's country, was considerable.

On the 17th of September, the American forces made a sortie from Fort Erie, which and retired upon Chippawa, Fort George, Lake, and brought reinforcements and sup- divided under distinct heads. squadron under Chauncey remained in Sacket's Harbour. On the 5th of November,

The enemy burnt the establishwhere they arrived late in August, having ment of the North West Company at Sault had to march round Lake Ontario. The St. Marie, but colonel M'Donnell managed principal part of the remainder of the troops to send parties of voyageurs and Indians to which arrived from France, were assembled the head of the Mississippi, and captured the post of Prairie du Chien. British naval officers and seamen, sent overland from General de Rottenburg, for the purpose of York, had also captured in open boats two carrying into effect instructions from Eng- American armed schooners on Lake Huron. land for offensive operations against the and preparations were making to secure the command of that lake, and even to recover some time previous been making on both that of Lake Erie, with which the former communicates by Detroit. The war, meantime, in America had brought about important changes. The British obtained possession of Washington, where they destroyed public edifices and private property, as the Americans had done in Canada. At New Orleans the English were defeated. Both parties began to sigh for peace, and on the 24th of December, 1814, a treaty between the United States and Great Britain was signed at Ghent, which, at length, restored tranquillity to Canada: on the 18th of February. 1815, it was ratified and proclaimed at Washington, and on the 9th of March made known at Quebec by Sir George Prevost.

In April, 1815, Sir G. G. Drummond was appointed to succeed Sir George Prevost; and soon after the Canadian parliament resumed the question of the independence of the judges, and impeached the chief judges of Quebec and Montreal. On the 12th of July, 1816, Sir John Coape Sherbrooke was appointed governor-general; he adopted a conciliatory policy, and in 1818 was instructed by Lord Bathurst, his majesty's Secretary of State for the Colonies, to accept the offer previously made by the colonists, of paying the whole civil list out of the colonial revenues. The governor-general, however, merely asked for a sum to meet current expenses, which was granted: new was repulsed, but with severe loss. On the taxes were imposed, of which the Assembly 21st, General Drummond broke up the siege, resolved to supervise the future appropriation. Sir John Sherbrooke laid before the and Burhngton Heights. On the 17th of Assembly, at their urgent solicitation, a October, Sir James Yeo appeared on the detailed estimate of the civil expenditure. plies to general Drummond; the American nately the state of Sir John's health compelled his return to England, and on the 13th of July, 1818, the Duke of Richmond Drummond again advanced upon Fort Erie, was appointed governor-general. His Grace and then succeeded in obliging the Ameri- refused to place detailed estimates before cans to evacuate the place. Michilimakinack, the House of Assembly, and required the which the American superiority on Lake House to vote the supplies under branch Erie and Lake Huron, enabled them to heads without detail. In this policy he was attack, had been gallantly and successfully supported by the Legislative Council, and the duke by its advice drew upon the re- fession, are filled by the adherents of this ceiver-general of the provincial revenues party: by grant or purchase, they have for the sum he required. In September, acquired nearly the whole of the waste 1819, the Duke of Richmond died of hydrophobia; on the 18th of June, 1820, the in the chartered banks, and, till lately, Earl of Dalhousie, who possessed high reputation as a soldier, was of very amiable character, and had been much liked as governor of Nova Scotia, was appointed governor-general of Canada. The noble earl, acting under the advice of his Legislative Council, on being refused by the Assembly £22,000 as a permanent grant, which he required for the public service, unless in detailed items, as an annual bill distinguishing characteristics. of supply, drew upon the receiver-general for even a larger sum; and in this he was lasting could not fail, in process of time, to supported by Earl Bathurst, who, however, recommended economy for the future, and directed two estimates to be prepared—one, consequently grew up in the Assembly including the expenses of civil government, which assailed the ruling party, by appealto be defrayed from funds of which the ing to popular principles of government, by crown claimed the entire disposal, the denouncing the alleged jobbing and profuother and much smaller estimate to embrace sion of the official body, and by instituting divers public objects, over which the House inquiries into abuses, for the purpose of of Assembly was to exercise complete con- promoting reform, and especially economy. able demands of the representatives of the it failed to command a majority in the people was well received, and the money Assembly, still continued to wield all the voted accordingly. The French Canadians powers of the executive government, to were grateful for the liberties which they strengthen itself by its patronage, and to gradually acquired from the British govern- influence the policy of the colonial governor ment; and in their constitutional struggles and of the colonial department at home. they were aided by the reformers in the By its secure majority in the Legislative House of Assembly in Upper Canada, who Council, it could effectually control the had also to contend against what was termed legislative powers of the Assembly. the "family compact" party. Lord Durham could choose its moment for dissolving hosthus described the power this party possessed, tile Assemblies; and could always ensure, and the influence it exercised on the government, legislature, and general affairs of the tenure of their seats for the full term of the province:-"For a long time this body of men, four years allowed by law." receiving at times accessions to its numbers, possessed of almost all the highest public offices, by means of which, and of its influence in the Executive Council, it wielded all the powers of government; it maintained influence in the legislature by means of its predominance in the Legislative Council; and it disposed of the large number of petty posts which are in the patronage of the Government all over the province. Successive governors, as they came in their turn, are said to have either submitted quietly to its influence, or, after a short and unavailing struggle, to have yielded to this well-organized party the real conduct of affairs. The bench, the magistracy, the high offices of the Episcopal befallen Canada. church, and a great part of the legal pro-

lands of the province; they are all-powerful shared among themselves almost exclusively all offices of trust and profit. The bulk of this party consists, for the most part, of native-born inhabitants of the colony, or of emigrants who settled in it before the last war with the United States; the principal members of it belong to the church of England, and the maintenance of the claims of that church has always been one of its

"A monopoly of power so extensive and so excite envy, create dissatisfaction, and ultimately provoke attack; and an opposition This partial concession to the reason- The official party not being removed when for those that were favourable to itself, the

> It is, however, due to this party to state, that they did much for the welfare of Canada; and many of the social improvements, which mark the gradual progress of Canada, had their origin in the endeavours of the "family compact," who were, generally speaking, not related to each other, but attached by certain principles, such as those of the old Tory party in England. Of their loyalty there has never been a doubt; but it may be questioned whether their prolonged opposition to the carrying out of principles which the majority of those most interested earnestly and perseveringly desired, has not caused many of the evils which have since

M. Papineau, at his election for the west

ward of the city of Montreal, in July, 1820, thus indicated the advantages which the Canadians had derived from British rule:—

"Not many days," said M. Papineau, "have elapsed since we assembled on this spot for the same purpose as that which now calls us together-the choice of representatives; the opportunity of that choice being caused by a great national calamity—the decease of that beloved Sovereign who had reigned over the inhabitants of this country since the day they became British subjects it is impossible not to express the feeling of gratitude for the many benefits received from him, and those of sorrow for his loss, so deeply felt in this, as in every other portion of his extensive dominions. And how could it be otherwise, when each year of his long reign has been marked by new favours bestowed upon the country? To enumerate these, and to detail the history of this country for so many years, would occupy more time than can be spared by those whom I have the honour to address. Suffice it then at a glance to compare our present happy situation with that of our fathers on the eve of the day when George the Third became their legitimate monarch Suffice it to recollect, that under the French government, (internally and externally arbitrary and oppressive,) the interests of this country had been more constantly neglected and mal-administered than any other part of its dependencies. In its estimation, Canada seems not to have been considered as a country which, from fertility of soil, salubrity of climate, and extent of territory, might have been the peaceful abode of a numerous and happy population, but as a military post, whose feeble garrison was condemned to live in a state of perpetual warfare and insecurity, frequently suffering from famine, without trade, or a trade mo-nopolised by privileged companies, public and private property often pillaged, and personal liberty daily violated; when year after year the handful of inhabitants settled in this province were dragged from their homes and families, to shed their blood, and carry murder and havoc from the shores of the great lakes, the Mississippi and the Ohio, to those of Nova Scotta, Newfoundland, and Hudson's Bay. Such was the situation of our fathers behold the change! George the Third, a sovereign revered for his moral character, attention to his kingly duties, and love of his subjects, succeeds to Louis XV., a prince then deservedly despised for his debauchery, his mattention to the wants of his people, and his lavish profusion of the public monies upon favourites and mistresses From that day the reign of the law succeeded to that of violence. From that day the treasures, the navy, and the armies of Great Britain, are mustered to afford us an invincible protection against external danger. From that day the better part of her laws became ours; while our religion, property, and the laws by which they were governed, remain unaltered. Soon after are granted to us the privileges of its free constitution; an infallible pledge, when acted upon, of our internal prosperity. Now religious toleration, trial by jury (that wisest of safe-guards ever devised for the protection of innocence); security against arbitrary imprisonment, by the privileges attached to the writ of Habeas Corpus; legal and equal security afforded to all, in their person, honour, and property, the right to obey no other laws than those of our own making and choice, expressed through our representatives:--all these advantages have become our birthright, and shall, I

hope, be the lasting inheritance of our posterity. To secure them let us only act as British subjects and freemen "-Lefe of Lord Sydenham.

The struggle on the part of the representatives of the people for complete control over the local revenues, and a not unnatural desire on the part of the Canadians, that some of their representatives who possessed their confidence, should be placed in office, or in the Legislative Assembly, grew more urgent, when Sir John Caldwell, the receiver-general in 1823, "became an insolvent, and was found to be indebted to the public to the amount of £100.000." In 1824 the majority of the Assembly denied the right of the crown to appropriate any part of the revenues of the province without their consent: required a reduction of the public expenditure; and that publicity should be given to the revenue receipts and disbursements, which they had vainly claimed during Sir John Caldwell's receivership. Lord Dalhousie expressed strong displeasure at these proceedings; but during his temporary absence Sir Francis Burton, his locum tenens, yielded a great point to the Assembly, by sanctioning a supply bill, in which no distinction was made between the civil government and "popular" expenditure, the whole being considered an annual grant under the control of the Assembly. custom duties collected on imports under an Act of the British parliament in 1774, now amounted to about £34,000 a year; and a smaller amount was raised from the sale of lands and timber, which it was alleged had been much "jobbed" by some of the members of the Legislative Council. The Assembly claimed the entire disposal of these sums, declaring, that as they were contributed by the people, the representatives of the people ought alone to be entrusted with their appropriation. To this Lord Dalhousie objected, and he was supported by Earl Bathurst, who censured the concession made by Sir Francis Burton. On the accession of Lord Goderich (now Earl of Ripon) to the station of Secretary of State for the Colonies in 1827, he directed a proposition to be made to the Assembly, offering the surrender of the disputed revenues, on condition of their granting a civil list in perpetutity of £30,000 per annum. The House of Assembly meto consider this proposition, and elected M. Papineau as its speaker, an appointment which the governor-general refused to confirm, on account of the opposition that of Commons, which was accordingly done- whole public revenue." the committee strongly condemned the

housie; he treated the colomsts with frank- than pass annual supply-bills for the govness and liberality, added new members ernor and other branches of the executive, allow the act. circumstances. the 24th December, 1830, announced through tion of a Council elected from the body of

gentleman had previously manifested to the the governor-general, his intention of bringmeasures of Government. The Assembly ing a bill into Parliament to secure to the persisted in their right to elect their own Assembly the disposal of the colonial revespeaker, and Lord Dalhousie refused to call nues, and requiring in return a fixed civil any session for the winter of 1827-28. As list of £19,100. His lordship, however, might naturally be expected discontent rose intimated that the timber, territorial, and to a great height, and a petition was sent other casual revenues, which had amounted from Canada to the king, signed by 87,000 to £11,231, were to remain at the disposal inhabitants, complaining of the conduct of of the crown, and to be employed chiefly in successive governors, and urging the justice the maintenance of the Established Church, of compliance with the requirements of the The Assembly thereupon passed a resolution Assembly, Mr. Huskisson, then Colonial that, "under no circumstances, and upon Minister, moved that the petition should be no consideration whatever would they abanreferred to a select committee of the House don or compromise their claim over the

On the 8th March, 1831, the House prepractice of appropriating large sums of the sented a long list of grievances to the govmoney levied from the Canadian people, ernor-general, which his lordship transmitted without the concurrence of their Parha-home, admitting that many of them were ment-recommended, that the whole re-well-founded. The Imperial Parliament then venue of the colony should be placed at passed an act giving the Colonial Assembly the disposal of the Assembly—that the full power over the colonial revenues, but governor, judges, and Executive Council leaving the question of the civil list still should be independent of the annual votes unsettled On the 20th January, 1832, the of the Assembly - that persons having Assembly decreed that the judges should be the confidence of the people, should be independent of the crown, and should have liberally viewed by the crown in its appoint- permanent salaries assigned them, but that ments to the Legislative and Executive only the chief justice should hold a seat in Councils—and stated generally, that the the Executive Council. By a large majority, complaints of the colonists were well- on the motion of Mr. Neilson, it was refounded, and deserved redress The report solved that the salaries should be drawn in of the committee of the Imperial Parliament the first instance from the casual and terrigave great satisfaction in the colony, and torial revenues. When the bill came home the Assembly ordered four hundred comes Lord Goderich, desirous of preserving to the to be printed and distributed among their crown the disposal of the casual and territorial revenues, refused the royal assent, Sir James Kempt was sent out in Sep- which greatly exasperated matters in the tember, 1828, in the place of Lord Dal-colony, the Assembly declined to do more to the Executive Council, and requested the and confidently referred to the decision of judges to retire from the Legislative Coun- the committee of the House of Commons, cil, which they refused to do, though they by which his majesty's ministers had propromised to take no part in its delibera- mised to be guided. The popular party then tions. In 1829 the Assembly cut off several commenced a direct attack on the Legisthousand pounds from the estimates laid lative Council-attached the names of indibefore them by the governor, and Sir George viduals to the salaries voted, and appended Murray, then Colonial Secretary, did not dis- the condition that several offices were not to Sir James Kempt, to the be held by one individual—a not unreasonagreat regret of the colonists, quitted Canada ble demand, since there were instances of in 1830. He was succeeded by Lord Aylmer several distinct appointments being held The Act of Parliament which was necessary by the same person. This measure was reto sanction the proposed transfer of authority jected in England. So far the Assembly had over the public purse was unfortunately de- justice on their side; but, irritated by the layed by the death of George IV. and other opposition their wishes met with at home, Lord Goderich, who was they proceeded to demand the abolition again at the head of the Colonial Office, on of the Legislative Council, and the substituthe Legislative Councillors, and their func-Fox in 1790.

colonists.

this act on the ground that the civil servants would otherwise have been left without any salary, through no fault of their own, pending the decision of the crown. Lord Monteagle afterwards declared, that on the very day when, through the change of ministry, he quitted the Colonial Office, he had a measure to submit to the cabinet, involving the surrender of the revenue point at issue.

Sir Robert Peel on his accession to office in 1835, determined on sending a special commission to Canada, for the examination of existing graevances, and the adjustment of differences, and he offered to yield the casual and territorial revenues, on condi-

the people; the franchise to be £20 in the was succeeded by that of lord Melbourne. towns and £10 in the country; a stated who, adhering in some measure to the same income to be a necessary qualification for plan, sent out the Earl of Gosford. Sir Charles Edward Grev, and Sir George Gipps, as tions to last for six years. This proposition commissioners, Lord Gosford to be governor somewhat resembled that suggested by Mr. in the room of Lord Aylmer. Lord Glenelg, then colonial secretary, expressed his readi-Lord Stanley, then Secretary of State for ness to surrender the disposal of the entire the Colonies, announced, that he deemed revenue to the Assembly, on the settlement such a measure inconsistent with mon- of an independent provision for the judges, archical institutions, and therefore could and the salaries of the civil officers being never advise his majesty to consent thereto. fixed for ten years. The whole proceeds of He also censured the Legislative Council for the sale of unclaimed lands were to be placed its intemperate language, and intimated "the at the disposal of the Assembly, but governpossibility that events might unhappily force ment could not consent to part with the upon Parliament the exercise of its supreme management of them, abolish the Land authority, to compose the internal dissension Company, or agree to the formation of an of the colonies, which might lead to a modi- Elective Legislative Council. The non-interfication of the charter of the Canadas." ference of the metropolitan power in the This was considered a threat by the Assem- internal affairs of the colonies, was fully bly, and in 1834 they resented it by refusing conceded in lord Glenelg's instructions to to pass any supply bill, and M. Dennis earl Gosford, in July, 1835; and in a des-Viger was deputed to proceed to London, patch written in the same year to Sir F. to lay before his majesty's government a Head, as heutenant-governor of Upper Cadetailed statement of the grievances of the nada, his lordship thus forcibly expresses himself: "Parliamentary legislation on any Mr. Spring Rice, now Lord Monteagle, subject of exclusively internal concern, in any having succeeded Lord Stanley as Colonial British colony, possessing a Representative Minister, intimated his intention of re- Assembly, is, as a general rule, unconstitunouncing the disputed revenues, according tional. It is a right of which the exercise is to the recommendation of the parliamentary reserved for extreme cases, in which necessity committee; but asked for time to consider at once creates and justifies the exception. 53 the whole subject. M. Papineau, and other Respecting the Elective Council, Lord Glenelg leaders, therefore, deferred any strong mea- stated to Earl Gosford and to Sir F. Head, sures, but complained that the administra- "the king is most unwilling to admit as tion was carried on as usual, and that open to debate the question, whether one £31,000 had been advanced from the mili- of the vital principles of the Provincial tary chest for the payment of the civil Government shall undergo alteration;" but servants, whereby their responsibility to the his majesty would not absolutely close the Assembly was evaded. Lord Stanley justified avenue of the inquiry, even though "for the present he saw no reasonable ground of doubt."

Lord Glenelg by not more decidedly expressing his opinion on this important point, left great latitude to Lord Gosford, who though a good and amiable man, was quite unfit for the difficult and responsible position in which he was placed. He is stated to have coquetted with the leaders of the Assembly; invited them to his table; declared that "to be acceptable to the great body of the people, was one of the most essential elements of fitness for public station;" intimated his readmess to place the whole revenues at the disposal of the Assemtion of a civil list being fixed for at least bly, on the conditions before mentioned; seven years. Before this arrangement was stated that all grievances were to be rematured, Sir Robert Peel's administration dressed; that the commissioners were not precluded from entering into an inquiry on meetings were convened, and the language still graver matters; and, in short, led the used by the leaders being very violent, Lord French party to believe, that the Elective Gosford dismissed 18 magistrates and 35 offi-Legislative Council would be ultimately conceded. The party in the Legislative Council proclamation, declaring that the "wicked opposed to the Assembly, threw out menaces designs of British authorities have severed of rebellion, but the Assembly intimated that all ties of feeling for an unfeeling mother they would grant the three years' arrears country," and that the struggle was for a de-and a half year in advance. This amicable mocracy. Active training was going on in state of things was unfortunately of short some districts, and the people elected their continuance, being entirely changed when Sir F. Head, with more straightforward po- language of the press on both sides was almost licy, made public in Upper Canada, where equally ill-judged. A series of letters were he was lieutenant-governor, the previously published in the Montreal Herald, by Adam quoted passage from Lord Glenelg's instructions, respecting the Elective Legislative to His Excellency the Earl of Gosford, Go-Council, which Lord Gosford had withheld. M. Papineau, and his supporters, declared lus." themselves to have been wilfully misled; the gratuitous distribution in the Lower Prov-Assembly refused to grant more than a halfyear's supply, clogged with conditions. The them the whole French population of Canada Legislative Council, sure of support from are treated with sovereign contempt; and home, threw out the supply bill, and every other sent up to them, including that for the annual appropriation of funds devoted slaves, cowards, assassins, demagogues, traito national education in Lower Canada.

Stimulated by popular addresses and ultra democratic counsels, the Assembly passed tary of state for the colonies, and even the the bounds of constitutional opposition; the language of the majority became violent in the extreme, fraught with denunciations of rity; and to induce even the French to all British rule, and accompanied by treasonable appeals to the inhabitants On the 6th March, 1837, Lord John Russell moved lish and French races. a series of resolutions, with the intention of bringing about a settlement, but the death "sons of liberty" and a "loyal association" of king William IV. intervened before Par- formed in opposition to them; the former liament had arrived at any decision; and were defeated, and many of them wounded; as it was deemed inadvisable that the first the office of the Vindicator (a French newsmeasures of the government of our young paper) was destroyed, and the "loyalists" queen should be in any degree coercive, the money for the payment of the colonial civil servants was advanced from the British exchequer, to be replaced out of the £142,000 locked up in the Canadian coffers.

In the mean time public meetings were held, and preparations were evidently making for the arrest of twenty-six persons, includ-to intimidate the Government. Lord Gos- ing M.M. Papineau and Viger, and five ford called the House of Assembly together other members of the legislature. But only on the 18th of August, 1837; but, unfor- nine of the warrants were executed; M. tunately, the promised change in the Legis- Papineau and others concealed themselves, lative and Executive Councils had not then or field the country. Instead of sending an been fulfilled; the division on government efficient military force to aid the civil power questions were in the proportions of 63 to in the execution of the warrants, a party of 13, and an address of the most determined 18 mounted militia volunteers were sent hostility was carried by 46 to 31. The into the centre of the most disturbed disleaders prepared for insurrection, and cited tricts, St. John's-on-the-Richelieu, to effect

cers of militia. The malcontents issued a own magistrates and militia officers. Thom, A.M., entitled "Anti-Gallic, addressed vernor-in-Chief of the Canadas -By Camil-These letters were "reprinted for inces and in the United Kingdom." the language applied to them - that of "dastards, dupes, miserable wretches, tools, tors, and rebels," was circulated in every direction; the governor-general, the secresovereign, are spoken of in terms well calculated to diminish the force of all authobelieve, that the sooner such a government was subverted, the better for both the Eng-

At Montreal a riot took place between the made a vigorous attempt to burn the house of M. Papineau, the democratic speaker of the House of Assembly. Exaggerated reports of these proceedings were spread through the distant counties, and caused much agi-The Government issued warrants tation. the example of the United States. County the arrest of two ringleaders, which they a high fence, and wounded several of the volunteer militia; the remainder fled, and

the two prisoners were rescued.

The villages of St. Denis and St. Charles Lieutehant-colonel Gore in promarch through a marshy and difficult country, the house with round shot from a howitzer. powered with fatigue, having lost six killed, sons were destroyed. ten wounded, and six missing, left his canan unfortunate prestige to the commencement of the insurrection. had been immediately arrested, and a sufficient force sent into the disturbed districts. which might easily (by reason of their limprocured another company of regulars from attack about 1,000 to 1,500 insurgents, town, 300 of the insurgents were slain, the leaders fled to the United States, and colonel Gore, with a strong force, entered St. Denis unmolested. On the frontier of the by captain Kemp and the volunteers of whole of the six counties south of Montreal, which had been the chief seats of the rebellion, were restored to tranquillity. Sir J. Colberne then proceeded to two districts north of Montreal, called the "Two Mountains."

did; but on returning to Montreal, were leader named Girod, were strongly posted interrupted near Longueuil by 300 well in a church and some neighbouring buildarmed men, who opened a fire from behind ings. These buildings were fired, and the rebels driven out with great slaughter: the British losing only one man killed, and nine Girod committed suicide. Col wounded. onel Maitland marched to St. Benoit, a were said to be the head-quarters of the village in the Grand Brulé district, which was stated to be the focus of insurrection; ceeding to St. Denis, was obliged to take a but a deputation from the village met colcircuitous route, and arrived after a long onel Mattland, and tendered submission. Thus terminated the rebellion of Lower where his men often found themselves knee- Canada in 1837. Many of the loyal and deep in mud. The rebels, who were posted respectable inhabitants, French' and Engin a large stone house at the entrance of lish, on refusing to join the rebels, had been the village, opened a fire on the British obliged to fly the country, and, in several troops, who vainly attempted to batter down instances, the mob plundered their houses. On the return of the "loyalists" with the Captain Markham was wounded while lead- British troops, they wreaked their vengeance ing the advance, and colonel Gore finding on different villages, and many houses and his ammunition failing, and his men over- much property belonging to innocent per-

Attention must now be directed to Upper non in the road, and retreated to Montreal. or Western Canada. The "high tory and These two ill-conducted proceedings gave family compact party," had long ruled the colony, retained among themselves the seats If the leaders in the Legislative Council, and preserved a dominant influence in the House of Assembly. Lord Sydenham remarked, that "members were everywhere chosen only ited extent), have been accomplished, there with reference to the extent of jobbery would, probably have been no outbreak for their particular district, which they whatever. While colonel Gore was at St. could carry on. Whoever happens to lead Denis, colonel Wetherall proceeded to the a party in the House of twelve or four-attack of the village of St. Charles; but teen members, may at once obtain a mabeing delayed by the badness of the roads, jority for his political views, by jobbing with other members for votes upon them, or by Chambly, and on the 26th proceeded to rejecting their jobs as the penalty of refusal oust them from their seats. This, indeed. protected by fortified houses and palisades. 18 admitted by the best men of all parties, In an hour the troops were masters of the and especially of the popular side." A reform party had been rising in Upper Canada, opposed to the exclusive privileges naturally preserved by the British loyalists from the United States, who had settled in the colony United States 200 "sympathizers" passed after the War of Independence, and to whom into Canada, but were speeduly driven back the crown had, in return for their loyalty, granted various favours. The reformers Missisqui county; and in a fortnight the were chiefly settlers of a recent date, emigrants from the United Kingdom, who, knowing the value of two legislative chambers, sought, not as the Lower Canadians did, to have two chambers elected by the people, but that the Legislative Council and Terrebonne; and on the 14th of De- should be, in some degree, rendered responcember marched with 1,300 regulars and sible to, and work in harmony with, the volunteers against the village of St. Eustache, Legislative Assembly. In the Upper as in where about 400 of the insurgents, under a the Lower province, the neglect of making

due and timely concessions to the public feeling, caused extreme irritation, and when those concessions were ultimately made, they were looked upon as granted from fear rather than from a sense of justice; instead of giving satisfaction, they begat new and unreasonable demands, and the people were easily led to believe by demagogues, or enthusiasts, that anything might be obtained by agitation.

The stoppage of the supplies by the Assembly of East Canada in 1833, the manner in which the proceeding was viewed at home, and the ascendancy of the reform radical party in 1834, led to the adoption of a similar measure in West Canada in 1836, and great exasperation was the result. small party, headed by an unprincipled demagogue, named Mackenzie, avowed their desire of separating West Canada from Great Britain, and joining it to the United States.

In 1836 Sir Francis Head, then one of the poor-law commissioners in England, was selected by lord Glenelg for the government of Upper Canada. Possessed of considerable intellectual power, much force of character, strong national feelings, and great command of language, Sir Francis threw himself on the people, appealed to their good sense, stated fully his instructions from the minister of the crown, appointed three popular members to the executive council, and promised practical and immediate redress of all real grievances. The people of West Canada almost unanimously responded to the appeal, and when he dissolved the Assembly in May, 1837, the majority of those returned were decidedly favourable to constitutional government. In order to manifest confidence in the people, Sir F. Head was desirous that every soldier of the troops of the line should be removed from the province, and when a requisition was made from the Lower province, to know how many soldiers he could spare, his answer was, "all." The lieutenant-governor seems however, to have allowed his generous en thusiasm to carry him beyond the bounds of prudence, when he caused the public arms to be deposited in the town-hall of Toronto, under charge of the mayor, with out any guard for their protection; and this encouraged Mackenzie to collect 500 or 600 desperadoes on the 4th December, 1837, for bled about four miles from Toronto, at a submitted, and 300 laid down their arms.

avern, and endeavoured to arrest all on their way to the city, to prevent their intended assault from being made known. A distinguished officer, colonel Moodie, while passing he tavern was wounded by the rebels, and died in a few days. They also attempted to seize alderman Powell, but after shooting one of the rebels he escaped to Toronto. gave the alarm, and awoke the lieutenantgovernor, who, on arriving at the town-hall. ound the chief justice with a musket on his houlder, surrounded by several other brave men ready armed, to resist any attack. Mackenzie's numbers were, as usual, greatly magnified; some stated that 3000, others that 5000 were advancing, and accordngly Sir Francis Head, and the citizens, posted themselves in the Town-hall, awaiting he morning's dawn. Mackenzie, fearing hat alderman Powell would alarm the city, did not advance. On the 5th of December, 300 loyalists were mustered; heutenantcolonel Allan M'Nab arrived with 60 men rom the Gore district; by evening there were 500 armed volunteers assembled, and the militia were summoned from all parts of the country. On the 6th the heutenantgovernor sent to the rebels, urging them to ay down their arms, and thus prevent the effusion of blood. Mackenzie said he would only do so on condition of a "National Convention" being called, to which he required the assent of the heutenant-governor before two o'clock on the ensuing day. On the 7th, the heutenant-governor and the armed volunteers of Toronto, headed by heutenant-colonel A. M'Nab and Mr. Justice M'Lean, the speaker of the House of Assembly, and his predecessor, whose clerk officiated as adjutant-general, marched against the rebels, who had taken their stand on an elevated position near the tavern. They were soon routed, several were killed; Mackenzie was the first to seek safety in flight, and thus began and ended the rebellion in Upper Canada. In the meantime the loyalty of the inhabitants was proved by the alacrity with which the militia, to the number of 10,000, hastened towards Toronto, but their services happily were not required, and they returned in peace to their homes, excepting a detachment commanded by colonel M'Nab, which proceeded to the London district. where it was said a notorious leader, named a night, or morning attack on Toronto, so Duncomb, had assembled some followers. as to surprise the city. The rebels assem- On the approach of the loyalists, the rebels The exertions of colonel M'Nab, and other gentlemen in Canada, and of the militia throughout the province, deserve high commendation. The queen expressed her majesty's royal approval of the timely exertions and gallant conduct of colonel M'Nab, by conferring on him the honour of knighthood.

Both Western and Eastern Canada were kept for some time in a state of excitement by the intrigues of a body of "Sympathizers," from the United States, some perhaps actuated by mistaken enthusiasm, but the greater number stimulated by the hope of plunder, and the promise of large tracts of land from Mackenzie, who assumed to himself the title of "Head of the Provisional Government of Canada," and joined the rebel standard at Navy Island, situated in the Niagara Chan-The rebels obtained 13 pieces of cannon, arms, and men to the number of 1,000, which were supplied from the United States, and conveyed to the island by an American steamer called the Caroline Colonel M'Nab arrived with several thousand militia on the shore opposite Navy Island, but was unable to cross for want of boats. The United States Government sent general Scott to the frontier, and issued proclamations with M Nab very properly instructed an officer of the settlement of its troubled affairs. the Royal Navy, named Drew, to intercept the American shore; carried her by boarding; killed or made prisoners all who resisted; and placed the remainder safely on Drew then towed the obnoxious vessel into the middle of the stream, set her on fire, and sent her a blazing wreck over the Falls of Niagara, a fitting retribution for the unwarrantable proceedings in which the vessel had been engaged. The State of New

guilty and hanged. Mackenzie was driven from Navy Island by the militia, aided by some regular troops and artillery; and the energetic remonstrances of the English government at length induced the United States' authorities to arrest Mackenzie and Van Ranselaer; but another rebel, named Sutherland, took refuge on the island of Bois Blanc, from whence he was soon driven into the United States; and a vessel containing supplies, and rebels dignified by military titles, was captured. While these events were occurring, her majesty's government determined on the suspension of the constitution of East Canada until time could be obtained to decide on the future form of government for the province, and a council was named by the Queen to exercise the legislative functions until 1840, whose enactments were to last only until the 1st November, 1842 The Earl of Durham, then recognized in England as the head of the Reform party in the House of Peers, who possessed high reputation as a statesman, was known to have directed much of his attention to colonial subjects, whose manners were popular, who had a strong love of justice, and ardent patriotic feelings, was a view to check this inexcusable invasion of induced, at the urgent request of her majesthe territory of a friendly power. Colonel ty's government, to proceed to Canada, for

Lord Durham was descended from the the Caroline on her passage between Navy Lambton family, which existed in the county Island and the American shore while con- Durham at the time of the Conquest; but veying recruits and stores to Mackenzie, several ancestral records having been de-Drew was unable to accomplish this, but he stroyed in the civil wars, the regular pediresolved to prevent the Caroline from being gree of the family can only be traced from any longer made the instrument of annoy- the twelfth century. The heads of the house ance to the flag of his country; during the of Lambton for many years represented Durnight, with a small band of determined men, ham in Parliament, and some of the younger he attacked the steamer while moored to branches served with distinction in the army. William Henry Lambton, born in 1764, was a stanch Whig, and distinguished himself in and out of parliament as the supporter of reform. In 1792 he was chairman of the "Society of Friends of the People associated for the purpose of obtaining Parliamentary Reform;" and when his own views and that of the society he represented were mis-stated. he defended himself in the words which have York made a great disturbance in the mat- been so frequently quoted by his party, "From ter; seized a man named M'Leod, who a state of confusion I have everything to lose falsely and foolishly boasted, in an American and nothing to gain, and I must hope that tavern, that he had been present at the neither my head is so weak, nor my heart burning of the Caroline. The mob refused so wicked, as to seek the misery of others to allow him to be bailed at Lockport; he at so great a personal risk. All I wish is to was tried for his life, and but for the fear of see this happy constitution reformed upon war with England would have been found to own principles, that every reparation may

be made in the style of the original building." Mr. Lambton uniformly opposed British interference in the affairs of France; had his advice, and that of other great men, been attended to, England would not now be several parties in British America:suffering under a debt of £800,000.000. He opposed the nefarious slave trade, and all measures of a cruel or oppressive nature; and, unhappily for his country, died at Pisa, 30th November, 1797, of consumption, at the age of 37. The same principles evidently actuated the conduct of his son. John George, afterwards created Earl of of general revenues, postal arrangements, Durham, who was born 12th April, 1792, educated at Eton, and elected, when of age, as the representative of the county Durham. He followed in the steps of his father, and incorporation, of all the British provinces in in 1821 introduced to the House of Commons North America under one legislature, exera plan of Parliamentary Reform, somewhat cising authority over all, as the Parliament similar to the measure adopted in 1831-2. In 1828 Mr. Lambton was created Baron Durham; on the accession of his father-inlaw, the late Earl Grey, to the station of matters to the British crown and Parliament. prime minister in 1830, Lord Durham became cabinet minister, with the office of Lord Privy Seal. In 1833 he was created an Earl; in 1835 sent on a special mission to Russia, whence he returned in 1837, and in 1838, with the approval of all parties, was would enable both to co-operate for all deputed by his sovereign to represent her common purposes; give Upper Canada a majesty in Canada.

His lordship arrived at Quebec 29th May, 1838, as governor-general of all the provinces of British North America, and high commissioner for "the adjustment of certain important questions depending in the provinces of East and West Canada, respecting the form and future government of the said province." The reception given to the new governor-general and high commissioner the arguments in favour of each proposition, was most cordial; he visited all the principal stations as far as Niagara, and instituted full enquiries into every subject connected with The result was the justly the Canadas. famous "Report," dated "London, 31st January, 1839," which received the approbation of the queen for the "attention devoted to this important subject, and for the full and comprehensive view taken of the various interests comprised in it." The report fills 246 large 8vo pages, and, in relation to colonies, is one of the most im portant state documents ever issued. Many parts of it are said to be the work of the late lamented Charles Buller, who, with several other able men, accompanied Lord

changes in the constitution to practical reorms, by which the union of the provinces was ultimately facilitated.

Three kinds of union were proposed by

First. A federal union of all the provinces, ach retaining its existing separate legislature and most of its powers of internal egislation,—the federal power to be exer-used only in matters of general concern, as expressly ceded by each of the constituent Colonies, such as custom duties, distribution prices of land, monies, weights, measures, local laws, railroads, &c.

Second. A legislative union, or complete of the United Kingdom does over England, Scotland, and Ireland; such united legislature to be, of course, subject in imperial

Third. A union of Upper and Lower anada alone, which would, to a great extent, amalgamate the French of the Lower or Eastern province with the Anglo-Saxon race in the Upper or Western province; communication with the sea; share the cost of her public works with the Lower province; supply the means of conducting the colonial government on an economical and efficient scale, increase the responsibility of the Executive: and give the deliberations of the united provincial legislature more weight than before with the imperial government.

Lord Durham, after carefully weighing adopted a modification of the second and third; and urged that no time should be lost in proposing to Parliament a bill for repealing the act 31 Geo III., restoring the union of the Canadas as one province, and under one legislature; and that the bill should contain provisions by which any or all the other colonies in North America might on application, with the consent of Canada, and on such terms as might be agreed on, join the united legislature. Lord Durham believed, that the establishment of a comprehensive system of government, and of an effectual union between all the different provinces in British North America, would produce an important effect on the general Durham to Canada, and assisted in diverting feelings of their inhabitants, by giving them the minds of the people from theoretical some nationality of their own, and by elevating these small communities into a society, which they would be unwilling to see absorbed even into one more powerful, such as the adjacent United States.

In support of the proposition of a legislative union of all the colonies, the Earl of Durham laid before the queen the following remarkable letter from the Duke of Kent, dated Kensington Palace, 30th Nov., 1814, which his lordship prefaced with the following remarks:—it may be added, that had the views entertained and urged by his royal highness on his majesty's government in 1814 been adopted, British North America would in all human probability be far more advanced in social prosperity than it now is; the French colonists would have been silently amalgamated with those of British descent; two rebellions, and the consequent expenditure of blood and treasure prevented, and the foundations of internal peace and good government ere this conso-

"The views on which I found my support of a comprehensive union have long been entertained by many persons in these Colonies, whose opinion is entitled to the highest consideration. I cannot, however, refrain from mentioning the sanction of such views by one whose authority Your Majesty will, I may venture to say, receive with the utmost respect Mr Sewell, the late Chief Justice of Quebec, laid before me an autograph letter addressed to himself by Your Majesty's illustrious and lamented father, in which his Royal Highness was pleased to express his approbation of a similar plan then proposed by that gentleman. No one better understood the interests and character of these Colonies than his Royal Highness; and it is with peculiar satisfaction, therefore, that I submit to Your Majesty's perusal the important document which contains his Royal Highness's opinion in favour of such a scheme .-

'Kensington Palace, 30 Nov. 1814.
'MY DEAR SEWELL,

'I have this day had the pleasure of receiving your note of yesterday, with its interesting enclosure nothing can be better arranged than the whole thing is, or more perfectly I cannot wish, and, when I see an opening, it is fully my intention to hint the matter to Lord Bathurst, and put the paper into his hands, without, however, telling him from whom I have it, though I shall urge him to have some conversation with you relative to it. Permit me, however, just to ask you whether it was not an oversight in you to state that there are five Houses of Assembly in the British Colonies in North America, for if I am not under an error, there are six, viz. Upper and Lower Canada, Nova Scotia, and New Brunswick, the islands of Prince Edward and Cape Breton. Allow me also to beg of you to put down the proportions in which you think the thirty members of the Representative Assembly ought to be furnished by each province; and, finally, to suggest whether you would not think two Lieutenant-Governors, with two Executive Councils, sufficient for the Executive Government of the whole, viz. one for the two Canadas, and one for Nova

Scotia and New Brunswick, comprehending the small dependencies of Cape Breton and Prince Edward's Island; the former to reside at Montreal, and the latter at whichever of the two situations may be considered most central for the two provinces, whether Annapolis Royal or Windsor. But, at all events, should you even consider four Executive Governments, and four Executive Councils requisite, I presume there cannot be a question of the expediency of comprehending the two small islands in the Gulf of St. Lawrence with Noya Scotia.

'Believe me ever to remain, with the most friendly regard,

'My dear Sewell, yours faithfully,
(Signed) 'EDWARD,'"

Lord Durham recommended that a general executive on an improved principle should be established, together with a supreme court of appeal for all the North American colonies, that the Legislative Council be revised by Parliament, so as to secure not only its effective working, but its acting as a useful check on the popular branch of the legislature, and thus prevent a repetition of those collisions which had already caused such dangerous excitement. Whether the governor-general's ideas were favourable to an Elective Legislative Council, does not appear, but it is evident that he was adverse to their existing constitution. The principle of a responsible executive was strongly enforced by his lordship, who contended that all the principal officers of the government, except the representative of the crown and his secretary, should be responsible to the united legislature; that the governor should be instructed he must carry on his government by heads of departments, in whom the legislature reposed confidence, and that "he must look for no support from home in any contest with the legislature, except on points involving strictly imperial interests."

The governor-general rightly advocated the establishment of the independence of the judges, by giving them the same tenure of office and security of income as that enjoyed in England; advised that all the revenues of the crown, except those derived from the sale of crown lands (which he wished confided to imperial authority for the promotion of emigration), should at once be given up to the united legislature, on the concession of an adequate civil list, and that no money votes should be allowed to originate without the previous consent of the crown; the governor-general also suggested that the Act of Union should repeal past provisions with respect to the clergy reserves, and define the application of the funds arising therefrom. The necessity of local government indeed it would have been difficult to obtain by elective bodies was not overlooked by an impartial jury. The prisoners, includhim, and the advantages of a large and ing Wolfred Nelson, Bouchette, Gauvin, beneficent system of emigration for the re-lief of the mother country, as well as for the Montreal, accepted these conditions, and benefit of the colonies, was powerfully urged: signed a paper, promising to abide by them. Lord Durham said, "I see no reason for Papineau, Côte, Gagnon, and several others doubting that by good government, and the implicated in the late rebellion, had left the adoption of a sound system of colonization, country. The conduct of Lord Durham in the British possessions in North America this matter created much excitement in the may be made the means of conferring on House of Lords, and was used as a weathe suffering classes of the mother country pon of party politics by the opponents of many of the blessings which have hitherto the then existing administration. been supposed to be peculiar to the social Brougham, viewing the subject as a lawyer, state of the new world." The establishment introduced a bill into the House of Lords, of a steam-packet communication between which declared the ordinance passed by Lord Halifax and England was strongly advo- Durham and his Council, viz., 2 Vic. c. 1, cated by the governor-general, and also the intitled, an "ordinance to provide for the formation of a railroad from Halifax to security of the province of Canada" illegal, was probable a colonial legislature thus without a trial, and sentenced them to transstrong and self-governing would desire to portation to a colony beyond the jurisdiction abandon the connection with Great Britain, of the governor-general. Lord Melbourne, the noble earl replied, that, on the contrary, then prime minister, opposed the passing he believed that the cessation on our part from of this bill, but her majesty's government undue interference, would strengthen the pre- was defeated by a majority in the House of sent bond of feelings and interests, and that Lords the connection would only become more dur- Act of Indemnity for Lord Durham and his able and advantageous, by having more of Council was passed. Her majesty's governequality, of freedom, and of local indepen- ment, in transmitting the announcement of dence. He looked to the increased power and these proceedings to the governor-general, weight that would be given to the Canadas by accompanied it by strong expressions of union, as the only means of fostering such a general approbation and unaltered confinational feeling throughout them, as would dence in the administration of his lordship. effectually counterbalance whatever tenden- Lord Durham, who had previously received cies may now exist towards separation; and despatches, formally conveying to him asas a true lover of freedom, he nobly added—surances of the satisfaction which all his "But, at any rate, our first duty is to secure measures, including the ordinance and prothe well-being of our colonial countrymen; clamation relating to the political prisoners, and if in the hidden decrees of that wisdom had given to her majesty's government, comportions of the empire, we owe it to our with a degree of asperity which the circumseparate from us, they should not be the not be deemed a sufficient justification bring about an amnesty and restore internal late rebellion, charged with high treason, that if they made a confession of guilt voluntarily deported themselves to Bermuda

To the assertions made that it because it adjudged men worthy of death The ordinance was annulled, and an by which the world is ruled, it is written that plained bitterly of these proceedings; asserted these countries are not for ever to remain the legality of the ordinance; and declared honour to take good care that when they stances of the case excuse, though they may only countries on the American continent that the ordinance of the special Council in which the Anglo-Saxon race shall be found for sending the prisoners to Bermuda, and unfit to govern itself." While engaged in the proclamation of amnesty issued on the the fulfilment of his highly important mis- day of the coronation of her majesty, were sion, the governor-general, with a view to parts of the same measure, and were divided solely for the purpose of imposing on the peace, offered to several of the leaders in the governor-general and his Council all that required legislation and was of a penal nature, and of making all that partook of mercy and kindness the act of the queen; remained there under strict surveillance that consequently the disallowance of the and agreed not to return to Canada, they ordinance had rendered null all the represshould not be put on their trial, for which sive portion of his policy, and that the universal proclamation of amnesty, limited by general rising in the counties of Montreal no exceptions save those now invalidated, on the 3rd of November; but the attempt adverse and discouraging circumstances, the governor-general did not consider that he could usefully remain longer in Canada, -he felt that his authority was weakened -that both the act of indemnity and the annulling of the ordinance were rebukes which would damage his future administrato return to England at once, especially as heutenant-general Sir John Colborne, his predecessor, was still in the province as commander of the forces, and no injury whatever could accrue to the public service by the resignation of the governor-general and his departure for England. The noble earl never recovered the shock which he sustained by these proceedings in Canada, and he died in England, 28th July, 1840

I may perhaps be excused for inserting here the following remarks, written at the period of his death, when examining the public proceedings of one of the best friends of the colonies, and most earnest promoters of colonization, which this century has produced-to whose liberality England mainly owes our present possession of New Zea-

land ·--

"By birth and inclination Lord Durham was one of the earliest advocates of political and popular reform, and to his credit be it said, he was ever foremost to aid the cause of the oppressed. At a period when few men stood forward to oppose the encroachments of ministerial power, Lord Durham was always the stanch opponent of oppression, whether individual or national. Enprompt to relieve distress, and unhesitatingly spent his wealth on objects which he thought conductive to the good of his country. There was no niggard or parsimonious spirit in his proceedings, whenever it could be proved that money or energy could advance the cause he took in hand; rities. and an unsullied integrity, and a lofty pacharacteristics of this lamented nobleman."

The departure of Lord Durham, the knowledge of his first act having been disallowed

placed the leaders of the rebellion precisely failed; except at Napierville, where about in the same position which they occupied be- 4000 were collected under three rebel fore their unsuccessful attempt. Under these leaders, named Dr. Robert Nelson, Côte, and Gagnon, who detached 400 men to the frontier, to open a communication with the "sympathisers" in the United States. body of British volunteers near the frontier, attacked and defeated the rebels; Dr. Nelson marched with 900 men to aid his colleagues, but the British volunteers posted at Odell tion, and he deemed it due to his character Town chapel, to the number of 200, checked his advance, and after an action of two hours and a half, the rebels retreated with the loss of 100 men in killed and wounded: the loyalists had I officer and 5 men killed. and 9 wounded.

Major-general Sir James M'Donnell, with seven regiments of the line, marched on Napierville; the enemy dispersed without firing a shot, but subsequently made a stand at Beauharnois, from which they were driven by a detachment composed of 1000 men of the regular troops and Glengarry fencibles. with the loss of two killed and two wounded. Within one week (on the 11th of November) major-general M'Donnell announced the restoration of tranquillity in the Lower province. In the Upper province Sir Francis Head resigned the office of heutenantgovernor, in consequence of Lord Glenelg's disapprobation of his removal of Judge Ri doubt from the bench, on account of the expression of democratic principles, and of his declining to raise to the bench Mr. Bidwell, late speaker of the House of Assembly, and a leader of the opposition. The retirement of Sir F. Head was much regretted in Canada: he was succeeded by Sir George Arthur, who had acquired considerable exdowed with a generous disposition, he was perience as chief superintendent in Honduras, and as governor of Van Diemen's Island, and whose steady and consistent conduct, excellent business habits, and conciliatory manners, had acquired for him in each position, the esteem of the people. and the approbation of the home autho-

In the beginning of June more than 1000 triotism, were among the distinguishing American plunderers and bandits crossed into Upper Canada, attacked a party of 14 lancers, and compelled their surrender. setting on fire an inn which sheltered at home, and probably an artful misrepre- them; the whole country rose, and on the sentation to the Canadian people, of the advance of the British the invaders rereasons which led to his retirement, induced crossed the frontier. At the end of June the malcontents to endeavour to effect a another band passed the St. Clair and

entered the Western district, but finding the people opposed, and the militia advancing. they fled. In November, when the insurrection occurred in the Lower province, 400 of the American brigands landed at Prescott. and were dispersed by colonel Young and captain Sandom, R.N., but some took refuge in a windmill, a strong stone house with walls three feet thick. Eighteen of the British were killed and wounded in attempting to carry the place, and it was not until cannon and additional troops arrived that the enemy, to the number of 159, surrendered at discretion. On the 4th of December between 300 and 400 of these marauders, having been organized at Detroit, crossed over into Canada near the town of Sandwich, burnt a steamer, and murdered several of the British subjects in cold blood. A party of militia arrived, and they retreated with the loss of 26 killed and 25 prisoners.

It now became evident that the government of the United States was totally unable to prevent its citizens making these cruel and cowardly attacks on the subjects of a state with whom it professed to be at peace; the Americans taken prisoners had heretofore been treated with mistaken lenity · but Sir George Arthur, in accordance with the wishes of the province, treated the marauders as a shepherd would treat wolves. Several of the Americans were tried by court-martial and hanged, and others were transported to Australia or imprisoned. The American government left them to their fate.

Thus ended a state of disturbance in Canada, which excited much anxiety in England, where all the proceedings were greatly magnified, and which has thrown back the province a full quarter of a century by the alarm created, and the consequent driving of capital and industry from the country. It should, however, be remembered, that the rebellion in East Canada was the work of a few individuals, and, probably, was not supported by ten thousand persons out of a population of half a million. The Roman Catholic bishop of Montreal issued and published an address to his flock, which had a powerful effect in preventing the spread of Lieutenant-general Sir John Colborne, the commander-in-chief, thus describes the conduct of the Catholic clergy during this important period, in a despatch to the secretary of state, dated 8th June, 1839, - "There are few instances in the

a want of loyalty has been shown by the priests; indeed, it cannot be denied that they have, with two or three exceptions. acted with great firmness, and have exerted their influence in favour of the government The field officers of the militia, with few exceptions, are also loyal subjects, and, indeed, many of the officers of militia."

The leaders of the insurrection, in both Eastern and Western Canada, partook more of the character and doctrines of the "Red Republicans" and "Socialists," for which France has been unhappily distinguished in 1849, than those of men struggling for constitutional freedom. An association termed the "Sons of Liberty," paraded the streets of Montreal in a threatening manner, inciting the young and ignorant to join them; declaring that "a glorious destiny awaits the young men of these colonies; to disfranchise our beloved country from all human authority, except that of the bold democracy within its bosom." The ignorant country people had, for several years, been drugged with such doctrines; and hopes had been held out by some of the leaders, of the abolition of the feudal system.

It will be necessary to dwell at some length on the subsequent events in the history of Canada, and on the policy then pursued under the guidance of Lord John Russell as her majesty's Secretary of State for the Colonies; because it involves the working of the principle of "responsible government," then, for the first time, effectually carried out in the administration of that colony, and which is now in the course of application to other dependencies of the British empire. The imperial government, on mature deliberation, adopted the recommendation contained in Lord Durham's report for a reunion of West and East Canada into one province, and in 1839 a bill was introduced into the House of Commons for the accomplishment of this object.

Mr. Pitt's views in dividing the provinces in 1791 had evidently failed; or the increase of a British population in Western Canada, and the state of affairs in Eastern Canada rendered it no longer advantageous, or even possible, to maintain the disunion. was also a strong reason for the union, with regard to West Canada; -its annual revenue was largely pledged for the payment of pubhe debts incurred for the improvement of the province by the construction of canals and other public works. Canals had been parishes which have been agitated in which undertaken for the conveyance of produce,

its public works the colonial debt had, from year to year been increased; and in 1839 points it was found that her majesty's government required full information, which man of unprejudiced views, practically acof doing good to his fellow-creatures Co) had for several generations been en- various useful acts gaged in the Russian trade. Mr Thomson father, Mr. John Poulett Thomson, sent him sions, watching the progress of events. obliged his return to England, and his wintering in Italy.

which maintained a great extent of water com- England, joined the London firm as a partmunication uninterrupted; the Welland canal ner, and entered into the active life of a obviated the interruption caused by the falls London merchant. He became a director of of Niagara, and the Cornwall canal avoided several public companies, and was actively the rapids in the river St. Lawrence, between instrumental as such in the Provincial Bank Kingston in Western Canada and Montreal of Ireland (founded in 1824 by Mr. Medlev). in Lower or Eastern Canada. To carry out where he acquired valuable information connected with banking and financial details. A great truth once sent forth on the wings the charge for the annual interest of debt of public opinion is sure sooner or later to was £65,000; while the whole yearly revenue operate for good, and the efforts of Mr. of Western Canada was only £78,000, which Thomson on the important subject of our could not be increased by Customs duties, as revenue and fiscal system led the way and the seaport of Quebec was in the East suggested the mode of remodelling entirely province. Western Canada was therefore on the prohibitive and protective system on the eye of bankruptcy On this and other which our commercial as well as financial code was then constructed.

On the death of Mr. Huskisson in 1830, could only be obtained on the spot from a Mr. Thomson was chosen by his party (the Whigs) to carry out the views of that great quainted with commerce and finance; and statesman; and for this high task he was well possessed of the confidence of her majesty's fitted, by previous study and practical experi-Their choice devolved on Mr. ence—by great moral courage—remarkable Charles Poulett Thomson, then President industry—and a deep sense of responsibility. of the Board of Trade, who was offered either The retirement of the administration of the the Chancellorship of the Exchequer, or the Duke of Wellington in 1830, and the formagovernment of Canada. Mr. Thomson de- tion of a cabinet by Earl Grey, led to Mr. cided on the latter, partly on account of his Thomson's appointment as Vice-President health, which he deemed unequal to the of the Board of Trade and Treasurer of the onerous duties of the former, and partly be- Navy, and at the end of the same year cause he considered Canada the finest field of Mr Thomson finally withdrew from the exertion, and likely to afford him great power commercial firm of Thomson, Bonar, and The Co It is not requisite to enter here into antecedents of Mr Thomson's life had well an examination of his career as Vice, and fitted him for the high office he undertook subsequently as President of the Board of to fill. Descended from one of the oldest Trade, suffice it to say, that in conjunction and most respected merchants in the city of with the late lamented Lord Althorp, then London, whose firm (Thomson, Bonar, and chancellor of the exchequer, he carried out

In 1826, Mr. Thomson was returned to had been early initiated into the habits of parliament as member for Dover, and judicommercial life. At 16 years of age, his clously remained silent for nearly two sesto St. Petersburg, to commence business at 1828, he made a few pithy speeches, rightly the branch house there, then under the man-judging, as he expressed it in a letter to his agement of an elder brother, Mr. Andrew brother George, of 28th February, 1828, that Thomson. In 1817, after two years' residence in the Russian capital, Mr. C. P. the majority are unacquainted, is sure to be Thomson's health, at all times very delicate, listened to "His speeches on the shipping interest, 7th May, 1827; on the usury laws, 20th May; on Scotch and Irish banking, From 1817 to 1821 his time was passed 18th June; on reducing the duty on Indian partly at the counting-house in London, and silk goods to a minimum duty of 30 per partly in travelling on the continent: and cent., 16th July, 1828; and on the silk from 1821 to 1824 in the counting-house at trade, 14th April, 1829, all told upon the St. Petersburg, and in visiting Russia, Ger-house, and gained for Mr. Thomson that many, &c. On the death of his father in which is seldom acquired—a parliamentary May, 1824, Mr. C. P. Thomson returned to commercial reputation. On the 25th March,

1830, Mr. Thomson delivered a remarkable inconsiderate persons by the course they are speech on the general taxation of the empire, now pursuing at the 'responsible govern-a speech replete with facts, then most dif-ment' meetings, promote the designs of the ficult of attainment, and enunciating sound most criminal characters. The foundations views of financial economy. Looking at of civil order were broken up by the occurour present comparatively simple fiscal rences of the year 1837, and general mistrust system, it is difficult to conceive anything and bad feeling open out a way for the dismore absurd, more onerous, more injurious play of the worst passions of the worst men. to trade or industry, than the revenue sys- of which they seem keenly disposed to avail tem of Great Britain in 1830; and much themselves." credit is due to Mr. Thomson for his exposure of many errors in the policy then fore very critical; the "family compact men"

pursued.*

In 1839, Mr. Thomson's health became much impaired by constant labour and mental anxiety acting on a naturally feeble constitution; added to which, his position as member for Manchester from 1832, must have increased considerably the duties of his conduct, without aristocratic connections, position of a cabinet minister, and on the elevation of Mr. Spring Rice to the peerage, the great object of his ambition, namely, the position of Chancellor of the Exchequer, was offered for his acceptance; fortunately for our colonies, he preferred the appointment of "Governor-General of British North America, and Captain-General and Gover-Lower Canada and Upper Canada, Nova same."

On 30th August, 1839, and on his fortieth birth-day, Mr. Thomson sailed in the Pique frigate from England, arrived at Quebec, received public addresses, and on 22nd October proceeded to Montreal. Great excitement and discontent prevailed in both pro-The British and French Canadians in East Canada, who had taken no part in the recent rebellion, were naturally anxious for the restoration of constitutional government, the misled French Canadians who had been induced to join in the insane atprovince, which the new governor-general visited in November, he found the people in the state thus described by the heutenantgovernor, Sir George Arthur, in his despatch dated the 22nd September, 1839. the wicked heads on both sides are con stantly at work plotting mischief; and many

· See the "Taxation of the British Empire," by R. M. Martin.

The position of the government was thereviewed Mr. Thomson with suspicion, and there was no settled party on whom he could rely for aid in his administration. strong powers of perception speedily enabled the governor-general to appreciate the true state of the Canadas, both as regarded their internal government, and their position with public life. By patient toil and judicious respect to the United States. He concurred with Lord Durham in considering that the he had worked out for himself the high salvation of the provinces as dependencies of the British crown, and their future peace and prosperity, depended on their being reunited on the broad basis of justice to all. He also adopted Lord Durham's view of the necessity of making the Executive Council harmonise with the House of Assembly, by rendering the higher officers of the executive government dependent as in Engnor-in-Chief in and over the Provinces of land on the majority in the House of Representatives, thus giving the people not Scotia, New Brunswick, and the island of only a general control over their own af-Prince Edward, and Vice-Admiral of the fairs, but affording them the means of declaring in whom they placed confidence for The course adopted their administration by the governor-general was in unison with his manly character; he convened the Special Council of the Eastern province, which had been appointed by his predecessor on the suspension of the constitution; abstained from adding a single name to the council, in order to avoid imputations, and to give due weight to its decisions in England, and laid before them certain resolutions as the basis of union; namely, that a civil list should be granted by the crown; tempt at rebellion, were kept in constant that the debt of Western Canada, should be agitation by their leaders; and in the Western borne by the united province; and that the details of the Union Bill should be settled by the imperial legislature. These resolutions were adopted by a majority of 12 to 3. after several days' discussion, in October, 1839, and the governor-general then proceeded to Toronto, in the Western province, and on the 3rd December, 1839, convened the Parliament which had been elected in 1836, under the administration of Sir F. B.

Previous to meeting his parliament, the governor-general deemed it expedient to promulgate the celebrated despatch of Lord which declared that the tenure of certain high ministerial offices, such as colonialsecretary, treasurer, sergeant-general, attornev and solicitor-general, sheriff, or provosta tenure for life, or during good behaviour, course to the future comfirmation of the

sovereign." The adoption of this policy had become absolutely essential in both provinces, for the chief offices of the government and the seats in the Legislative Council were looked upon almost as hereditary rights, and such members of the executive government as spoke and acted in their individual capacity of justice. without the slightest reference to the views unfrequently denounced for having friends in the gallery of the Houses of Parliament to acquaint him with the proceedings, and inform him of the speeches of the members. not be tolerated, and rendered the authority of the governor a nullity, as the Assembly ties, and he frequently had not one man to depend on as the representative of his policy. Several of the executive members had previously been opposed to the union; but on Mr Thompson's promulgating the above-mentioned despatch of her majesty's union, and retain office. equal division of the public debt.

deprive their city of being the seat of local government.

The House of Assembly did not so readily John Russell, dated the 16th October, 1839, agree to the terms: they required that West Canada should be the seat of government; that the franchise should be restricted to those holding their lands in free and common soccage (which would have disfranchised marshal, and also the position of members nearly the whole of the French Canadians of Council, should no longer be considered as who held their lands under feudal tenures); that West Canada should return 62 membut that, "not only such officers will be bers, as at present, with a right of adding called upon to retire from the public service, new members as population increased, but as often as any sufficient motives of public that East Canada should return no more policy may suggest the expediency of that than 50 members; and that the English measure, but that a change in the person language should alone be spoken and used of the governor, will be considered as a in the legislature, in courts of justice, and sufficient reason for any alterations which in all public proceedings. The object was his successor may deem it expedient to make the annihilation of the French Canadian in the list of public functionaries, subject of party by an arbitrary enactment; and as very few of the French Canadians understood English, the exclusion of their language from public proceedings would have been a great injustice. To these propositions the governor-general was decidedly opposed; his desire was to conciliate all parties, and he well knew that this most difficult object could only be attained by a were members of the Provincial Parliament, firm adherence to the most strict principles

After many debates and adjournments or wishes of the governor, who was not the governor-general had the satisfaction of seeing his resolutions carried, with a slight alteration, by an almost unanimous vote; and on the 22nd of January, 1840, he transmitted to her majesty's government a Such a state of things, it was evident, could draft bill for the act of union. While the measure was being discussed in the Imperial Parliament, the governor-general proceeded was split into half a dozen different par- to redress several grievances, and settle some disputes of long standing. Among the most prominent was that concerning the and reserved for the clergy of the estabished church, which had been contested by he Scotch church, the Dissenters, and the Roman Catholics for 25 years, and it was Secretary of State for the Colonies, Lord desirable to bring the question to an issue John Russell, they agreed to support the before the union took place. The governor-The conditions general was opposed to the proposition proposed to the parliament of Upper Canada generally entertained of converting the were (1) equality of representation for each clergy reserved lands into a fund for general province; (2) the grant of a civil list to be education, as religion would thus be desettled by the Imperial Parliament; and (3) prived of the only existing means for the These support of its ministers and the promulgawere carried in the Legislative Council by a tion of its doctrines; he, therefore, brought majority of 14 to 8, and of the minority all forward and obtained the assent of his but two were inhabitants of Toronto, who were adverse to the union, because it would of 30 to 20, and in the Council of 14 to 5,

to a bill which distributed the clergy re- government, as they had done generally respective numbers; and this bill was passed title of Baron Sydenham in Kent, and Toto East Canada, summoned the Special Council, and by infusing his spirit into that several useful laws. Among the measures proposed to be established by the ordinances of the Special Council, were the incorporation of the cities of Quebec and Montreal (the former corporations having been allowed to expire during the dissensions of 1836), the incorporation of the seminary of St. Sulpice in order to provide for the gradual extinction of the seigneurial dues in the city and island of Montreal, which had been granted in 1663 for the conversion of the Indians, and the ecclesiastical superintendence of the island of Montreal.

The establishment of municipal institutions and of land registration offices for readily ascertaining mortgages, were urgently pressed by the governor-general as measures of vital importance The state of things in East Canada at this time, is described by Mr. Thomson in a private letter as follows. -" No man looks to a practical measure Talk to any one upon of improvement education, or public works, or better laws, you might as well talk Greek to him. Not a man cares for a single practical measure, the only end, one would suppose, of a better form of government. They have only one feeling—a hatred of race. The French hate the English, and the English hate the French, and every question resolves itself into that, and that alone. There is, positively, no machinery of government; everything is to be done by the governor and his secretary. There are no heads of departments at all, or none whom one can depend on. The wise system heretofore adopted has been to stick two men into some office whenever a vacany occuredone a Frenchman, and the other a Brit-Thus we have joint crown surveyors, joint sheriffs, &c., each opposing the other in everything he attempts." To eradicate, as far as possible, this estrangement was the great aim of Mr. Thomson, as it has since been that of his successors, Lords Metcalfe and Elgin.

The measures of the governor-general had given entire satisfaction to her majesty's

serves among the religious communities throughout Canada; and the Queen was recognised by law, in proportion to their pleased to raise him to the peerage, by the by the Imperial Legislature, in whom alone ronto in Canada; an honour which it was resided the power of making this distribution rightly deemed advisable to announce with valid. The governor-general now proceeded the declaration of the union of the two provinces, made by Lord Sydenham at Montreal, on the 10th of February, 1841, body induced it to pass, in a few weeks, the anniversary of the marriage of our gracious sovereign, and of the conclusion of the treaty of 1763, by which Canada was ceded to the British crown. The provisions of the Act will be found in the section on Government. The following is a copy of the celebrated despatch of Lord John Russell to the governor-general on "Responsible Government," which has been so much canvassed, and which forms the basis of constitutional and colonial government:-

Downing Street, 14th Oct. 1839.

"It appears from Sir George Arthur's despatches that you may encounter much difficulty in subduing the excitement which prevails on the question of what is called 'Responsible Government' have to instruct you, however, to refuse any explanation which may be construed to imply an acquiescence in the petitions and addresses upon this subject. I cannot better commence this dispatch than by a reference to the resolutions of both houses of Parliament, of the 28th April and 9th May, in the year 1837.

"The Assembly of Lower Canada having repeatedly pressed this point, her majesty's confidential advisers at that period thought it necessary not only to explain their views in the communications of the Secretary of State, but expressly called for the opinion of Parliament on the subject. The Crown and the two houses of Lords and Commons having thus decisively pronounced a judgment upon the question, you will consider yourself precluded from entertaining any proposition on the subject.

"It does not appear, indeed, that any very definite meaning is generally agreed upon by those who call themselves the advocates of this principle; but its very vagueness is a source of delusion, and if at all encouraged, would prove the cause of embarrassment and danger.

"The constitution of England, after long struggles and alternate success, has settled into a form of government in which the prerogative of the Crown is undisputed, but is never exercised without advice. Hence the exercise only is questioned, and however the use of the authority may be condemned, the authority itself remains untouched.

"This is the practical solution of a great problem, the result of a contest which from 1640 to 1690 shook the monarchy, and disturbed the peace of the

"But if we seek to apply such a practice to a co-lony, we shall at once find ourselves at fault. The power for which a minister is responsible in England is not his own power, but the power of the Crown, of which he is for the time the organ It is obvious that the executive councillor of a colony is in a situation totally different. The Governor under whom he serves, receives his orders from the Crown of England. But can the colonial council be the advisers of the Crown of England? Evidently not, for the Crown has other advisers, for the same functions,

and with superior authority.

"It may happen, therefore, that the Governor receives at one and the same time instructions from the Queen, and advice from his executive council, totally at variance with each other. If he is to obey his instructions from England, the parallel of constitutional responsibility entirely fails, if, on the other hand, he is to follow the advice of his council, he is no longer a subordinate officer, but an independent sovereign.

"There are some cases in which the force of these objections is so manifest, that those who at first made no distinction between the constitution of the United Kingdom, and that of the colonies admit their strength. I allude to the questions of foreign war, and international relations, whether of trade or diplomacy. It is now said that internal government is

alone intended.

But there are some cases of internal government, in which the honour of the Crown or the faith of Parliament, or the safety of the state, are so seriously involved, that it would not be possible for Her Majesty to delegate her authority to a ministry in a colony

"I will put for illustration some of the cases which have occurred in that very province where the petition for a responsible executive first arose—I mean

Lower Canada.

"During the time when a large majority of the assembly of Lower Canada, followed M Papineau as their leader, it was obviously the aim of that gentleman to discourage all who did their duty to the Crown within the province, and to deter all who should resort to Canada with British habits and feelings from without I need not say that it would have been impossible for any minister to support, in the Parliament of the United Kingdom, the measures which a ministry, headed by M Papineau, would have imposed upon the Governor of Lower Canada, British officers punished for doing their duty, British emigrants defrauded of their property, British merchants discouraged in their lawful pursuits,—would have loudly appealed to Parliament against the Canadian ministry, and would have demanded protection.

"Let us suppose the Assembly as then constituted, to have been sitting when Sir John Colborne suspended two of the judges Would any councillor, possessing the confidence of the Assembly, have made himself responsible for the act? And yet the very safety of the province depended on its adoption Nay, the very orders of which your Excellency is yourself the bearer, respecting Messrs. Bedard and Panet, would never be adopted, or put in execution by a ministry depending for existence on a majority

led by M. Papineau

"Nor can any one take upon himself to say that such cases will not again occur. The principle once sanctioned, no one can say how soon its application might be dangerous, or even dishonourable, while all will agree that to recall the power thus conceded would be impossible.

"While I thus see insuperable objections to the adoption of the principle as it has been stated, I see little or none to the practical views of colonial government recommended by Lord Durham, as I understand

them. The Queen's Government have no desire to thwart the representative assemblies of British North America in their measures of reform and improve-They have no wish to make those provinces the resource for patronage at home They are earnestly intent on giving to the talent and character of leading persons in the colonies, advantages similar to those which talent and character, employed in the public service, obtain, in the United Kingdom. Her Majesty has no desire to maintain any system of policy among her North American subjects which opinion condemns. In receiving the Queen's commands, therefore, to protest against any declaration at variance with the honour of the Crown, and the unity of the empire, I am at the same time instructed to announce Her Majesty's gracious intention to look to the affectionate attachment of her people in North America, as the best security for permanent dominion.

"It is necessary for this purpose that no official misconduct should be screened by Her Majesty's representative in the provinces; and that no private interests should be allowed to compete with the

general good.

"Your Excellency is fully in possession of the principles which have guided Her Majesty's advisers on this subject; and you must be aware that there is no surer way of earning the approbation of the Quen, than by maintaining the harmony of the execu-

tive with the legislative authorities

"While I have thus cautioned you against any declaration from which dangerous consequences might hereafter flow, and instructed you as to the general line of your conduct, it may be said that I have not drawn any specific line beyond which the power of the Governor on the one hand, and the privileges of the Assembly on the other, ought not to extend But this must be the case in any mixed government. Every political constitution in which different bodies share the supreme power, is only enabled to exist by the forbearance of those among whom this power is distributed In this respect the example of England may well be imitated. The sovereign using the prerogative of the Crown to the utmost extent, and the House of Commons exerting its power of the purse, to carry all its resolutions into immediate effect, would produce confusion in the country in less than a twelvemonth. So in a colony the Governor thwarting every legitimate proposition of the Assembly, and the Assembly continually recurring to its power of refusing supplies, can but disturb all political relations, embarrass trade, and retard the prosperity of the people. Each must exercise a wise moderation The Governor must only oppose the wishes of the Assembly where the honour of the Crown, or the interests of the empire are deeply concerned, and the Assembly must be ready to modify some of its measures for the sake of harmony, and from a reverent attachment to the authority of Great Britain

"I have, &c., J. Russell."

Lord Sydenham, when announcing the union, issued a spirited proclamation, and appealed to the good feelings and interests of the Canadians to render the union productive of the advantages which it was the desire of the queen and of her majesty's government it should confer.

The governor-general summoned the

united legislature to meet him at Kingston Election Bill." Owing to misconception and on 13th June, 1841; violent party strife or other reasons the government were unable rather contests of race took place at the elec- to defeat the bill, which passed the House tions in which the governor-general ab- of Assembly, and was sent up to the Legisstained from interfering, except to maintain lative Council for discussion and confirmaorder and to protect the free exercise of the franchise. The composition of the House and the harmonious working of two legislaof Assembly when it met was said to be: tive chambers was established; the upper government members 24, French members judiciously acting as a check on hasty or 20, moderate reformers, 20, ultra reformers party legislation in the lower chamber. 5. "family compact" 7, doubtful 6, special return 1, double ditto 1; total 84. governor-general opened the session in a speech of much moderation, advised conciliation, announced that Great Britain had readjusting the currency; educating the agreed to pledge its credit for a loan of £1,500,000 to complete the public works, that assistance would be afforded by the home government to convey destitute emigrants of local parties and private individuals; a from the port of embarkation to the place municipal district bill, &c.; and the first seswhere their labour might be required; declared, in reference to M'Leod and the general, and happily for Canada, in peace United States, "her majesty's fixed determination to protect, with the whole might of ham's constitution, never very strong, gave her power all her Canadian subjects; pointed way after two years of incessant labour; he out the necessity of establishing throughout was unable to close Parliament in person, the province a system of self-government which was done by general Clitherow on such as had already been established in East Canada; the establishment of a comprehensive and efficient system of education, and concluded with a prayer that, "under the blessing of that Providence which had hitherto preserved this portion of the British dominions, their counsels might be guided so as to insure to the queen attached and loyal subjects, and to United Canada a Lord Sydenham was owing to his horse prosperous and contented people."

Notwithstanding these conciliatory measures and proceedings, an attempt was made by Mr. Neilson, the representative of Quebec, by an amendment on the speech from the throne, to condemn the Act of Union as " inconsistent with justice and the common rights of British subjects." Mr. Neilson's amendment was rejected by 50 to 25, 18 of the arrival of the Puque frigate from Halifax the minority were French Canadians, or re- to convey him to England, the accident presented French constituencies, 6 were of occurred which suddenly terminated the the extreme Upper Canada party, and I was labours of his useful life at the age of member for Gaspé. Another similar amend- forty-two. ment was rejected by 54 to 21. The Assemby then proceeded to discuss a bill brought of Lord Sydenham was viewed as a public in by Sir Allan M'Nab to extend the time calamity, and the press throughout the profor receiving petitions on contested elections in consequence of some defeated candidates his services. In the words of his able biohaving been too late in presenting their peti- grapher, who rendered efficient assistance tions in the only form in which they could be to the governor-general in his arduous received by the Assembly. The measure was duties :- "When we look back at the effects a party move, and was termed the "French produced by his short but vigorous adminis-

n. The upper house rejected the bill,

The United Parliament of Canada now The proceeded to work; the governor-general introduced through his executive officers various bills for revising the custom laws; people; creating an efficient "Board of Works" for the whole province, which would take the power of jobbing out of the hands sion closed triumphantly for the governorand reviving prosperity. But Lord Syden-17th Sept., 1841, and on the 19th of the same month, Canada lost one of the most able men who ever administered its affairs—the crown a valuable servant. and the nation a true patriot-whose devotion to the interests of his country was manifested up to the moment of his death.

The immediate cause of the decease of falling with him, on 4th September, fracturing his leg, and causing a severe wound above the knee. His lordship finding his health fast failing, had, in July, 1841, sent home his resignation, which had been graclously accepted by the queen, who had conferred on him the order of the Bath, and while waiting the closing of Parliament and

By men of all parties in Canada, the death vince bore testimony to the great value of quers empty; their credit annihilated; each of Canada. man mistrusting his neighbour; and all looking to military force as the only security against renewed violence and ultimate separation from the mother-country. In less than two years the picture was reversed. complete security and repose; safe not only vived in every bosom; the public works again in progress; credit re-established; and the union with the mother-country cemented and placed on a broader and more secure basis."*

On the death of Lord Sydenham, Sir C. Bagot was appointed governor-general of Canada. He had been long employed in the diplomatic service, and having the character of being a high churchman and decided Tory, his accession to office was very favourably viewed by Canada; but they, nevertheless, complained that he threw himself into the hands of the Whigs and Radicals. Messrs. Draper and Ogden, Tory leaders, resigned; Messrs. Baldwin and Lafontaine, heads of the opposite party, were appointed attorneys-general for West and East Canada; and the council of eleven all shades of politics. It is, however, acknowledged, even by their opponents, that "adopted a system of managing the public characterized his after life. of the departments were ably executed."— Colonial Magazine, No. 33, September, 1846.] Severe illness obliged Sir Charles Bagot to resign office at the end of 1842, and On the resignation of Sir Charles Bagot,

* T. C. Murdoch, Esq, then attached to Lord Sydenham as Civil Secretary, and now head of the Colonial Emigration Commission. Mr. Murdoch wrote that portion of the life of Lord Sydenham which related to Canada, the remainder was well executed by the brother of the deceased nobleman, G. Pouiett Scrope, esq. M.P.

tration, we need not be surprised at the the premier, Sir Robert Peel, sought among unanimity which prevailed on this occasion. the ablest men of the day for his successor, He had found the provinces staggering and Sir C. Metcalfe, though without arisunder the effects of two rebellions; their tocratic connections, and even personally inhabitants divided against each other; unknown to any member of her majesty's their improvements arrested; their exche- ministers, was appointed governor-general

Sir C. Metcalfe, born the 30th of January, 1785, was the second son of Sir Theophilus Metcalfe, M.P., whose family had been long connected with the East India Company. Mr. Metcalfe was educated at Eton, where He left the province not only in the most he was "noted for his great kindness of disposition, and his remarkable aptitude at against foreign aggression, but against acquiring knowledge and mastering diffi-intestine discord; hope and confidence re- culties." In 1800 he proceeded to Bengal as a "writer," or civilian, in the service of the East India Company. His proficiency in the college of Fort William attracted the notice of the Marquess Wellesley, then governor-general of India, who, in order to train a class of civil servants adapted for the government of a great empire, formed what was termed the "Governor-General's Office," in which were placed the most promising young men in the service of the East India Company, where, under the eye of Lord Wellesley, they were trained and prepared for high positions.

In a letter written to the Marquess Wellesley in 1836, Sir Charles Metcalfe. gratefully attributes his success in life to the counsels of Lord Wellesley, and to his own endeavours to follow the example set by his lordship. Mr. Metcalfe first dismembers was composed of moderate men of tinguished himself as resident at the court of Scindiah, one of the Mahratta chieftains. and at a critical period, when his very life the new government and governor-general was threatened, evinced the firmness which During the revenues, calculated to cherish and improve Mahratta war of 1803 to 1805, Mr. Metcalfe the resources of the country; that its in- was attached in a civil capacity to the army come increased under their direction; a of Lord Lake, and his lordship having, in a more beneficial surveillance than had hith- moment of irritation, let fall some hasty erto existed was imposed on the different expressions respecting "men who would public officers; and that the official duties not fight, and were in the way of others." the young civilian vindicated his personal courage by taking an active part in several contests, and particularly at the battle and siege of Deeg, where, carried away by enhe died in Canada on the 19th of May, 1843. thusiasm, and armed only with a walkingstick, he headed an attacking party of the British troops in their assault on the city. In successive years Mr. Metcalfe passed through different grades of office, and was employed as resident, or representative of the British government at the courts of Scindiah, of the Great Mogul at Delhi, the

Nizam of the Deccan, and at Lahore, on a while he recognized the just power and prispecial mission to Runjeet Sing. He also vileges of the people to influence their rulers. filled the arduous office of chief secretary and to regulate, through their representato government, and in 1827 became a mem-tives, the measures of the government, he ber of the Supreme Council of Bengal, and reserved to himself the right of selecting the retained his seat for seven years, two years executive officers of the crown. The membeyond the usual period. Charles Metcalfe (who had succeeded to a of the executive, were divided on the subject baronetcy on the death of his father) was of the transfer of the seat of government appointed lieutenant-governor of the Agra from Kingston, in Upper Canada, to Monand the North-west provinces of India; and treal in Lower Canada; and there was a in the same year, on the retirement of Lord William Bentinck, he was named acting governor-general, the highest office which a civil servant of the East India Company can hold in Bengal; the crown having adopted the suggestion of Lord Wellesley, that the office of governor-general should not be held by any servant of the East India Company. As acting governor-general, Sir Charles Metcalfe granted a free here, on subjects of merely local interest, press to British India, and adopted various liberal measures. In 1836 he was succeeded by Lord Auckland, who was appointed governor-general; and the court of directors of the East India Company having disapproved of Sir Charles Metcalfe's ordinance on the Indian press, he returned to England, and thus ended a useful career of 36 years' service in British India. In 1837 he was created a civil K.CB. by His Majesty William IV., and retired, for a time, into In July, 1839, Sir Charles private life. Metcalfe was induced to quit his privacy, and undertake the office of captain-general or governor of Jamaica, which was strongly urged upon him, in consequence of the distracted state of affairs in that On his arrival at Jaimportant colony. maica the governor called the Assembly together, frankly solicited their confidence, which was readily granted; and by a strict enforcement of justice, tempered with mercy -by firmness attended with mildness-he succeeded in restoring peace to the colony. General ill health, and the appearance of a cancer on his face, compelled Sir Charles Metcalfe, to the great regret of all parties, to relinquish the government of Jamaica on the 20th of May, 1842; and on his arrival in July of the same year Sir Charles Brodie excised a cancerous tumour from his cheek, after which he partially recovered—accepted the station of governor-general of Canada, and proceeded immediately to Kingston, in Western Canada, where he was sworn into office.

In 1834 Sir bers of the Canadian Parliament, and also great struggle for a parliamentary majority by Sir Allan Napier M'Nab and his party. Sir C. Metcalfe did not interfere in these discussions, and the Assembly eventually decided for the removal. In 1844 the queen, as a mark of her appreciation of the long and valuable services of this distinguished servant, created him Baron Metcalfe.

It is unnecessary to enter into details which influenced the majorities in the Assembly and the persons entrusted with the executive government of the colony. No particular event took place, except two awfully destructive fires which occurred at Quebec. Happily few lives were lost; but it was calculated that the dwellings of 24,000 people had been destroyed, many of whose inhabitants were reduced to utter destitution. Subscriptions to the amount of £100,000 were collected in the United Kingdom, and £35,000 was elsewhere raised for the relief of the afflicted sufferers.

In 1844 the Canadian Parliament was dissolved, and a new one called, in which the views of the governor-general were supported by a small majority. The high character. indomitable energy, and singleness of purpose habitually evinced by the representative of the crown in Canada, enabled him to effect much good in training the people for the future enjoyment of free institutions: and had his life and powers been spared, he would doubtless have assuaged the asperity which the violence of party feeling had diffused over all classes in Canada. But in November, 1845, he was obliged to return to England, the cancer on his cheek having reappeared; and of this dreadful disease he soon after died, universally regretted. The kindness, the frank manliness, forbearance, and christian charity of Lord Metcalfe were as tully appreciated in Canada as they had been in Jamaica and in British India.

Lord Stanley in the Canadian debate in the House of Lords on 13th June, 1849, The new governor-general stated that described him as "that wise, great, and good man, of whose high qualities and transcendent ments it would be impossible to speak in terms of exaggerated praise." His lordship drew an eloquent, but most truthful picture, when he said-"He knew nothing more touching than the uniform patience and fortitude with which, in the agony of an incurable disease, in the presence of death in its most loathsome and appalling form, in the midst of the most violent party struggles, surrounded by the most distracting vexations, and the extremest agony of body and mind-nothing could be more touching than the self-possession, the calmness, and temper with which he restrained the violence which assailed the governor of Canada."

The then commander-in-chief in British North America, Lieutenant-general Earl Cathcart, was appointed administrator of the government. At this period the Earl of Elgin and Kincardine, then governor of Jamaica, was in England on leave of absence. Lord Elgin had succeeded Sir Charles Metcalfe in May, 1842, in the administration of the affairs of Jamaica, and his conduct had given universal satisfaction in the colony, to his sovereign, and to her majesty's government. His lordship had inherited and imbibed from his father a ca-The late Earl of pacity for public life. Elgin had been chiefly employed in the diplomatic service, and during the eventful period at the close of the last, and the beginning of the present century, his exertions as his majesty's representative with the Sublime Porte, at Constantinople, were effectively instrumental in aiding the late Marquis Wellesley in the successful issue of his lordship's project for the expulsion of the French from Egypt by the combined armies from England and from India. Lord Elgin was, contrary to the law of nations, imprisoned by Napoleon for his exertions; which were never requited by the government of Britain. The sacrifice of the Athenian Marbles to the French emperor would have secured his freedom, but his lordship's even for personal freedom or riches. The laid before Parliament. grant from the British parliament only rereturned member for Southampton to the less extent, from the rebels having taken

Imperial Parliament, where he made an effective speech on the Address, which at once marked him as a statesman, and opened the door of office to him while in England. His accession to the earldom removed him from the House of Commons, and her majesty's government being anxious to nominate a successor to Sir Charles Metcalfe in the government of Jamaica, Lord Elgin accepted the appointment, which he fulfilled greatly to the satisfaction of his sovereign, and to the Whig as well as Conservative party. Earl Grey subsequently stated in the House of Lords, that Lord Elgin was nearly a stranger to him when he recommended his lordship to the queen for the government of Canada; and during the recent parliamentary discussions statesmen of all parties in both houses united in bearing testimony to the ability and integrity of the governor-general, the difficulties of whose position are, perhaps, even greater than those of his predecessors. Lord Lyndhurst, in the debate of 20th of June, 1848, while opposing the "Canada Indemnity Bill," said, "I believe—and I state it on the testimony of many persons who have the best means of knowledge-Lord Elgin to be a most honest and conscientious as well as able man." The Earl of Elgin was appointed Governor-General of Canada 1st of October, 1846, and arrived in Canada in January, 1847.

The principal feature in the administration of the Earl of Elgin has been the passing of a bill by the legislature of Canada for the indemnification of parties in the Lower province, who had suffered by the rebellion of 1837-38. The bill has occasioned considerable excitement in Canada, and given rise to much discussion in the Imperial Parliament, and as the question raised in England, both in the House of Commons and the House of Lords, involves the free exercise of what is termed "responsible," or, more properly speaking, "constitutional" government in the colonies, it will be desirable to place on record a brief narrative of patriotic spirit destined them for his own the principal circumstances connected with country, and would not abandon his object this measure, derived from the documents

On the 26th January, 1838, Earl Gosford, paid half his expenses in conveying them then governor-general, addressed a letter from the shores of Greece, to be cared for from Quebec to Lord Glenelg, then her and appreciated in Britain; but his desire majesty's Secretary of State for the Colonies, of raising the standard of taste among his in which he informed her majesty's governcountrymen was accomplished. The present ment that "many loyal individuals in Lower peer was born in 1811, educated at Oxford, Canada had sustained losses to a greater or possession of and laid waste their property, The House of Assembly also addressed the Council of Lower Canada, of Messrs, Stewart, Pemberton, Panet, and Guesnal, on 21st January, 1838, having deliberated on the subject, recommended "an advance, by way of loan, to any loyal subject who can show satisfactorily that the whole or greater part of his property has been destroyed, without any connivance or fault of the applicant, by the rebels or her majesty's forces, during the late insurrection, a sum not exceeding onethird of the estimated loss; the party giving good security for the repayment of the amount so advanced, without interest, in case of the government hereafter deciding that such losses are not to be indemnified by the public."

On the 26th April, 1838, an ordinance (1 Vic. c. 7) was passed by the Special Council of Lower Canada, under the administration of heutenant-general Sir John Colborne, authorizing the appointment of commissioners "to investigate the claims of certain loyal inhabitants of the province for losses sustained during the late unnatural rebellion."

On the 6th March, 1838, an act (1 Vic c. 13) was passed by the legislature of Upper Canada, authorizing the appointment of commissioners to make a diligent and impartial inquiry into the amount of losses sustained by "certain inhabitants of this province" during the late unnatural rebelhon." The word "loyal" does not appear in this act. The commissioners were to inquire into all matters and things under oath, to punish false swearing, and to fur nish to the lieutenant-general accounts of their proceedings in writing. The report of the commissioners in Upper Canada gives full details of the property destroyed by the rebels in Upper Canada, and also that destroyed by the American "sympathisers," or invaders.

On 11th May, 1838, the legislature of Upper Canada passed an act (c. 68), authorizing the issue of provincial debentures to the amount of about £5,000, bearing 6 per cent, interest, and redeemable after 20 years to certain persons whose claims for losses during the insurrection in Upper Canada in December, 1837, had been investigated

or from the same having been destroyed by queen, praying the reimbursement of the the military operations necessary for putting money thus granted from the imperial treadown the insurrection;" and the governor- sury. The Marquis of Normanby, as her general inquired "whether any and what majesty's Secretary of State for the Colonies. description of losses incurred from the above on 27th June, 1839, informed Sir G. Arthur, causes were to be indemnified, and in what lieutenant-governor of Upper Canada, that manner." A committee of the Executive he was commanded by the queen to express to the Assembly her majesty's regret that she could not hold out any prospect of the indemnity-money being repaid by Parliament, the people of England being already harged with the military defence of the province.

> In 1839, an act was passed by the legislature of Upper Canada to "ascertain and provide for the payment of all just claims arising from the late rebellion and invasion of the province." The preamble of this Act conveyed a pledge that the indemnity should ultimately be borne by the Imperial treasury.

> Lord John Russell, as her majesty's Secretary of State for the Colonies, on 12th October, 1839, declined giving the assent of the crown, stating, that even if the principle of the preamble were admitted, it would be of no avail, unless with the previous sanction of Parliament. His lordship, however, informed Sir George Arthur, the heutenantgovernor, that if the colonial legislature should pass a similar bill, free from the objection of pledging Parliament for the payment of the indemnity-money, he would be ready to advise the giving of the royal assent.

In 1840 an act was passed by the United Legislature of Canada (8 Vic. c. 72), appropriating £40,000 "for the payment of all just claims arising from the late rebellion and invasion of the province." The money to be collected and levied from tavern licences and other duties in the province, and apportioned by three commissioners on oath. The royal assent was given to this act, and it was promulgated 22nd October, 1840. A further act was passed 28th July, 1847, adding £3,613 8s. 9d. to the £40,000 authorized by the 8 Vic. c. 72. Nothing was stated in the act relative to loyalty; the matters to be investigated involved solely the justness, or as Mr. Poulett Thomson expressed it, the validity of the claims.

Under this act it is stated by Mr. Hincks the receiver-general of Canada, that many persons who were known to be rebels received payment for supplies rendered to the military, or for damage sustained.

During 1838, and in subsequent years,

as governor-general, £21,000 had been awarded to the sufferers by Sir J. Colborne, and Mr. Thomson urged on her majesty's government that the Imperial Parliament to call for persons or papers. should defray, at least, some of these claims.

(then consisting of what is termed the conservative party in Canada) proposed that a special fund, derived from tavern and marriage licenses, which formed part of the revenue of the consolidated fund in Canada, and was more productive in Upper than Lower Canada, should be surrendered to the municipalities; and that in Upper Canada it should, in the first place, be charged with the payment of the rebellion indemnity losses. Previous to this proposal being carried in the Canadian Parliament, a resolution was unanimously adopted by the House of Assembly, praying his excellency "to cause proper measures to be adopted, in order to ensure to the inhabitants of Lower Canada indemnity for just losses by them sustained during the rebellion of 1837 and 1838."

The French party in the United Legislature assented to this act for indemnification in Upper Canada: a proposition was made, and confirmed by the above resolution, that a similar act should be passed for Lower Canada. On the 24th of November, 1845, Lord Metcalfe, the governorgeneral, issued a commission to Messrs. Dione, Moore, Jacques, Viger, Simpson, and Beaudry, to inquire into the losses sustained by her majesty's loyal subjects in Lower Canada. of Lord Metcalfe the commission was renewed on the 12th of December, 1845, by the Earl of Cathcart, as administrator of the province, to the same persons; and the commissioners were instructed to "classify carefully the cases of those who may have joined in the said rebellion, or who may have been aiding and abetting therein, from the cases of those who did not; stating particularly, but succently, the nature of the loss sustained in each case, its amount and character, and, as far as possible, its cause."

An investigation of this nature would, if efficiently performed, necessarily enable the government to ascertain what were "just" claims, without entering on the debateable

the losses sustained in Lower Canada by were traitors or rebels; but a difficulty the rebels and American invaders, was re- arose in the minds of the commissioners as peatedly under examination and discussion. to their powers and means of procuring Previous to the arrival of Mr. P. Thomson evidence, and on the 27th of February the government decided that the commissioners were to be "guided by the sentences of the courts of law," and that they had no powers

On the 18th of April, 1846, the commis-In 1845 the council of Lord Metcalfe sioners reported to Lord Cathcart, that they recognized claims to the number of 2,176, and of the value of £241,965, viz., personal property £111,127, real property £68,961, and damages not comprised in the foregoing heads £61,877. In the latter was included £9,000 for interest, £2,000 for quartering troops, £30,000 indemnity for imprisonment, interruption of business or trade, privation of goods destroyed or carried off, and banishment: the remainder represented various losses, such as account books, trade effects, &c. The commissioners were of opinion that £100,000 would be a sufficient and fair equivalent to the losses sustained, and they stated, that "the want of power to proceed to a strict and regular investigation of the losses in question, left them no other resource than to trust to the allegations of the claimants as to the amount and nature of their losses." Some of the claims the commissioners considered inadmissible, and others were evidently exorbitant.

> On the 19th of June, 1846, the United Legislature passed "an act to provide for the payment of certain rebellion losses in Lower Canada." The act also empowered the issuing of £9,986 7s 2d. in debentures towards the payment of the said indemnity.

On Lord Elgin's assumption of the go-On the retirement vernment of Canada in January, 1847, he found the question in the state described. The Conservative administration by which he was surrounded, dissolved the House of Assembly in the hope of strengthening their position; but the new Assembly convened under their auspices, placed the administration in a minority, and compelled it to give place to what would be termed in England the Whig or Reform Party. By the constitution of Canada the governor-general is bound to act only through "responsible" advisers—that is, those who possess the confidence of the province; and the only legitumate proof of that confidence is a majority in the House of Assembly.

The Reform administration proceeded to ground of what constituted treason, or who carry out the measures adopted by their predecessors in office for the indemnification those of Lower Canada, previous to the the 27th of February, 1849, an act was the House of Assembly, "to provide for ing the rebellion of 1887-38." The preamble recited the different steps that had been taken during preceding years, and authorised the issue of debentures to the amount of £100,000, for the payment of this indemnity. But as the commissioners of 1846 reported their inability to make a such losses, not yet paid and satisfied, should form the subject of more minute arisen from the total or partial, unjust, the said inhabitants, and from the seizure, taking or carrying away of their property and effects, should be paid and satisfied; been convicted of high treason, alleged to have been committed in that part of this province formerly the province of Lower Lower Canada, since the 1st day of November, 1837, or who, having been charged with high treason or other offences of a treasonable nature, and having been committed to the custody of the sheriff in the gaol of Montreal, submitted themselves to the will and pleasure of her majesty, and were thereupon transported to her majesty's Islands of ment on the subject would have been un-Bermuda, shall be entitled to any indemnity for losses sustained during or after the said the question was before the colony, and its rebellion, or in consequence thereof"

This act, after much discussion, was passed by the House of Assembly and by the Legislative Council. It was opposed on the ground, that rebels might obtain compensation, which the administration repeatedly asserted was not the intention of the act; and no objection having been made by her majesty's government to the previous act for Upper Canada, or to any of the proceedings adopted by Lords Gosford, Sydenham, Metcalfe, and Cathcart, the governor- burning the House of Parliament at Mongeneral deemed it his duty to give his treal, and thus destroying its magnificent property had been wantonly destroyed in his resignation of the arduous and responthe Lower province, and a pledge had been sible office, which he filled with dignified given by the members of Upper Canada to neutrality between violent contending par-

of the rebellion losses; and, accordingly, on passing of the indemnity bill for Upper Canada, that a similar act should be adopted introduced, and read without opposition in for Lower Canada. The money was not to come out of the Imperial treasury, but to be the indemnification of parties in Lower raised by the people, whose representatives Canada, whose property was destroyed durhad, by a considerable majority (48 to 32) enacted the law, which was confirmed by the Legislative Council, consisting of 31 English and 15 French members nominated for life. and independent of the governor or of the people; and it was clearly the bounden duty of the representative of the crown in Canada to do that which his sovereign would necessarily strict and regular investigation of the losses have done in England, namely, assent to a in question, the preamble declared—"it is 'theasure passed by majorities in the House necessary and just that the particulars of of Commons and in the House of Lords. Had Lord Elgin declined to take this course, he would have thrown the whole inquiry under legislative authority, and that colony into irremediable confusion; the the same, so far only as they may have disastrous contest of races would have broken out afresh; the constitution granted unnecessary, or wanton destruction of the by the Queen and Parliament of Great dwellings, buildings, property, and effects of Britain would have been treated as a nulhty; the declaration of our gracious sovereign, that it was the "anxious desire of her majesty that her British North American provided that none of the persons who have subjects should enjoy that freedom which is the birth-right of Britons," would have been set aside; and every other colony to which Great Britain might hereafter grant constitutional government, might justly doubt the permanence of a constitution whose first principles were hable to be abrogated or altered according to the fluctuating state of party feeling, either in the colony or at home.

To have dissolved the Canadian Parliajust: when that parliament was convened principle ratified by the Upper Canada act; and to have reserved the act for the assent of the queen, would have thrown on the crown a degree of responsibility which its representative felt himself bound to incur. The governor-general, therefore, wisely, and in a spirit of justice, and also of concilation, to all classes, gave his assent; but in consequence of the street riots in Montreal, promoted by the opponents of the act, and the disgraceful proceedings of the mob in It was well known that much library, Lord Elgin patriotically tendered

whole conduct of the governor-general; jesty's ministers. The approbation of the liament in May, 1849, cannot be palliated. queen was thus strongly expressed by the sembly in Canada voted an address to the happy.

ties, and which, from the commencement of governor-general by a considerable majority, his administration, his lordship declared it which was tantamount to an approval of his had been his unremitting study to maintain. policy; and about forty addresses were pre-The queen and her majesty's government sented to him from Montreal, Quebec, and immediately expressed full approval of the various places in Upper and Lower Canada.

The violent language and proceedings of urgently desired his retention of the office he the minority have inflicted much injury had so meritoriously and judiciously filled; on Canada; and the inflammatory articles and the House of Commons and the House printed in the Montreal Gazette of 25th of Lords ratified the decision of her ma- April, 1849, and laid before the British Par-

Canada wants capital to cultivate its waste Secretary of State for the Colonies, in the lands, to make railroads and canals, and to concluding paragraph of a despatch dated improve its valuable territory. Capital can 18th of May, 1849:—"Relying, therefore, only be attracted by peace, by order, by an upon your devotion to the interests of Ca- union of all classes cordially combining for nada, I feel assured that you will not be the welfare of their common country. May induced by the unfortunate occurrences this recent agitation be the expiring contest which have taken place, to retire from the of the opposing races in Canada; the colohigh office which the queen has been pleased mists, whether of English or French descent, to entrust to you, and which, from the value are now all British subjects, and have been she puts upon your past services, it is her so for nearly a century (90 years)—the queen majesty's anxious wish that you should and government of Great Britain acknowretain." Sir Robert Peel most ably supledge no distinction, and it is the interest, as ported the policy pursued by Lord John it is the policy, of England that Canada Russell and Earl Grey. The House of As- should be peaceful prosperous, united, and

CHAPTER II.

TOPOGRAPHY, RIVERS, LAKES, TOWNSHIPS, CHIEF CITIES, ETC.

Canada, under the dominion of France, was governed as one province, and after its conquest by the British, in 1760, was considered as such until 1791; when the colony was divided into two provinces by an order of the King in Council, viz .- the Lower or Eastern, in which the French population resided; and the Upper or Western, to which the refugee loyalists from the United States and emigrants from Britain chiefly resorted. After the rebellion of 1837, '38, '39, the two provinces were reunited, and on the passing of the Act of Union in 1840, and the consequent alterations in the new Legislative Assembly, the electoral divisions and boundaries of counties were altered. The existing arrangements will be shewn in the chapter on Population; in the present chapter the geographical features will be preserved of the physical features of the country.

The whole province, exclusive of the adjacent regions claimed by the Hudson's Bay Company, may be said to extend in a S.W. direction from the island of Anticosti, in the Gulf of St. Lawrence, to the S. extremity of Lake Erie, a distance of 1000 miles. From Lake Erie to the N.W. boundary of the colony, in the parallel of 50° N, the distance, as the crow flies, is 600 miles, and from Quebec to the N.W. limits of Lake Superior, the distance is nearly 1000 miles. The largest portion of the province is situated between the parallels of 45° to 50° N.: but the fine districts between Lakes Ontario, Erie, and Huron, extend from 45° to 41° 30' N. in a S.W. direction for nearly 400 miles, with a breadth varying from 50 to 150 miles.

The coast of Labrador lies between the as better calculated to afford a correct idea parallels of 50° and 60° N.; a rigorous climate and sterile soil have prevented its colo

on the N., NE, and N.W., have not been clearly defined, and the area has been variously estimated; in Eastern or Lower Canada, exclusive of Labrador, the river and gulf of St. Lawrence, and the lakes, the area is about 210,000 square English miles The gulf and river of St. Lawrence cover upwards of 50,000 square miles. The vast lakes and numerous rivers in Western or Upper Canada render it difficult to give approximative accuracy to the landed area.

The natural features of Canada partake of the most romantic sublimities and picturesque beauties, indeed the least imaginative beholder cannot fail to be struck with the alternations of ranges of mountains, magnificent rivers, immense lakes, boundless forests, extensive prairies, and foaming ca-

Beginning with the bold sea-coast of the ocean-like river St. Lawrence, it may be observed that the castern parts are high, mountainous, and covered with forests on both sides of the St Lawrence to its very edge, on the northern side the mountains run parallel with the river to Quebec, where they take a W and S W course on the southern side the mountainous range doe not approach within 60 miles of Quebec, when it quits the parallel of the river broken (save where rivers find their exits and runs in a SW and S direction into in the St. Lawrence) to 15 miles below the United States. The mountains S of Saguenay. Beyond this coast border, the the St Lawrence risc abruptly at Percé, between the Bay of Chalcur and the Bay of undulated by chains of hills of moderate at a greater distance from its banks than and rivers, among the latter are the St those on the opposite side, and are connected Charles, the Montmorenci, the Great River, by the Green Mountains of Vermont with or St Ann's, the Riviere du Gouffre, Black the lofter ridge of the Alleghanies, which River, &c. divide the tributaries of the Atlantic from The country situated those of the Ohio. between the mountain ranges on either side of the river and the boundary line of East Canada in 45° north, forms the valley o the St. Lawrence. In order to give a clear view of this valley, it may be well to divide it into sections, and then treat briefly of the rivers and lakes throughout the province beginning with the sea-coast

I. NORTH SIDE OF THE ST LAWRENCE The most northerly and easterly section o the province of Eastern Canada, extending from Ance au Sablon on the Labrador coast to the Saguenay river, lat. 48° 5′, long. 69° 37′ occupies a front of 650 miles, of which little more is known than the appearance of the coast, as noted from time to time by fisher

The boundaries of the province men and hunters Bold mountainous feaures generally characterise the coast line. n some places the range recedes from the hores of the gulf and river St. Lawrence to he extent of 12 or 15 miles, leaving a deep swampy flat or moss-bed nearly three feet in depth, while in others (as at Portneuf, 10) miles E of the Saguenay) the shores are of moderate elevation, and composed alternately of cliffs of light-coloured sand, and tufts or clumps of evergreens.

> The country between the two points abovestated, is well watered by numerous rivers, among which may be mentioned the Grande and Petite Bergeronnes, the Portneuf, Missisiquinak, Betsiamites, Bustard, Manicougan, Ichimanipistic (or seven islands), St

John, St Austins, and Esquimaux

II The second geographical division of the province N of the river St. Lawrence, is that comprised within the mouths of the Saguenay and St. Maurice rivers, which form the great highways to the northern territories, and ramify in various directions with numerous lesser streams and lakes. The distance between the Saguenay and the St Maurice is about 200 miles. Quebec to the Saguenay there is a lofty and clearly defined range of mountains, from Cape Tourment, the ridge is uncountry is in some places flat, in others They follow the course of the river height, and well watered by numerous lakes

The country N W of Quebec, between that city and the St. Maurice, is not so strongly marked as on the S E towards the Saguenay, the land gently ascends from the St Lawrence banks, presenting an extremely picturesque prospect, the effect of the rich grouping of water, wood, and highly cultivated ground being heightened by the shadowy forms of remote and lofty moun-The rivers Jacques Cartier, Portneuf, St. Ann's and Batiscan, with their numerous tributaries, tend also to fertilize and adorn this delightful district

III The third territorial section N of St Lawrence, embraces the country lying between the St Maurice river and the junction of the Ottawa and St. Lawrence, where West and East Canada meet The aspect

vities and plains of moderate extent.

32 miles long by 10 broad, lying at the confluence of the Ottawa and St Lawrence, and separated on the N.W. from isle Jesus, by is richly cultivated and tastefully adorned Isle Jesus, N W of Montreal, 21 miles long Bay. There are also many lakes by 6 broad, is everywhere level, fertile, and oval, well cleared and tenanted serve for pasturage

tawa, towards which it gradually declines.

IV. SOUTH SIDE OF THE ST. LAWRENCE tract of territory which extends 90 miles Ristigouche river and Bay of Chaleur;-

of the country from 5 to 15 miles from the soil rich, and yielding abundant crops when river's bank is marked by slightly elevated tilled. The sea-beach is low (with the extable ridges, with occasional abrupt acchi- ception of the lofty and perpendicular chiffs of Cape Gaspé) and is frequently used as the The islands of Montreal, Jesus, and highway of the territory; behind it, the land Perrot, situate in the river St Lawrence, rises in high, round, and well wooded hills. come within this section. Montreal, the The chief rivers are the Ristigouche, into largest of the three, is of a triangular shape, which fall the Pscudy, Goummitz, Guadamgonichoue, Mistoue, and Matapediac; the Grand and Little Nouvelle, Grand and Little Cascapediac, Caplin, Bonaventure, East the rivière des Prairies. Montreal exhibits Nouvelle, and Port Daniel, which discharge a surface nearly level, with the exception of themselves into the Bay of Chaleur :- Grand a mountain (Coteau St Pierre) and one or and Little Pabos, Grand and Little River, and two hills of slight elevation, from which flow Mal Bay River, flowing into the Gulf of St numerous streams and rivulets The island Lawrence —the river St John, and northeast and south-west branches, fall into Gaspé

V. The country comprised between the admirably tilled, off its SW. end is isle W. boundary of Gaspé, and the E. of the Bizard, about 4 miles in length and nearly Chaudière river, fronts the St Lawrence Isle Per- river to the NW for 250 miles, and is rot hes off the SW. end of Montreal, 7 bounded on the SE by the high lands miles long by 3 broad; level, sandy, and not dividing the British territories from those of well cleared, the small islets de la Paix are the United States These high lands are 62 annexed to the seigmory of Isle Perrot, and miles from the St Lawrence at their nearest point, but on approaching the Chaudière Lattle is known of the interior of that river, they diverge southwardly. The physiportion of the province which is bounded by cal aspect of this district, is not so mounthe Ottawa or Grand River; so far as it has tainous as the opposite bank of the St been explored, it is not distinguished by the Lawrence; it may more properly be characboldness which characterises the castern sectorised as a hilly region, abounding in extention of Lower Canada, now and then small sive vallies. The immediate border of the ridges and extensive plains are met with, St Lawrence is flat, soon however rising in receding from the bed of the Ottawa, whose irregular ridges, and attaining considerable margin is an alluvial flat, flooded often by height, and forming an extent of table-land; the spring freshes and autumnal rains, to which, at the distance of 15 to 20 miles from the extent of a mile from the river's bed. the shores of the St. Lawrence, gently de-The Bytown tract, extending 200 miles up seends towards the river St. John, beyond the Ottawa, to the Upper Allumettes lake which it again reascends, acquiring a is in general level or gently sloping, and is greater degree of altitude towards the traversed by several tributaries of the Ot- sources of the Allegash, and finally merging in the Connecticut range of mountains.

VI. The last section of Lower Canada, S. We now turn to the region on the south of the St. Lawrence, is the exceedingly of the St Lawrence, beginning as before at valuable tract W. of the river Chaudière the sea coast-on which the extensive county fronting the St. Lawrence, and having in its and district of Gaspé is situate. This large rear the high lands of Connecticut, and the parallel of 45° of N. lat., which constifrom north to south, and has a sea coast of tutes the S and S E. boundary of Eastern 380 miles, with a range of mountains skirting Canada, where the latter is divided from the the St Lawrence to the N., and another American States of New Hampshire, Verat no remote distance from the shores of mont, and New York The physical aspect greatly varies throughout this extensive secbetween these ridges is an elevated and bro-tion; at the mouth of the Chaudière the ken valley, occasionally intersected by deep banks of the St. Lawrence still retain the The district is well wooded, and boldness for which they are remarkable at watered by numerous rivers and lakes; the Quebec and Point Levi, but proceeding

westward, they gradually subside to a mode- the scenery, the beauty of which is increased rate elevation, till they sink into the flats of by numerous rivers, lakes, and rivulets Base du Febre, and form the marshy shore winding in every direction. The chief rivers of Lake St. Peter, the remainder of the are the Chaudière, which forms the eastern country being a richly luxuriant plain. Pro- boundary, the Beçancour, Nicolet (two ceeding from Lake St. Peter towards Montreal, the majestic grandeur of the country about Quebec contrasts with the picturesque but the three last having their source within champagne beauties of Richelieu, Verchères, Chambly, and La Prairie districts. In the former especially, the eye of the spectator is delighted with a succession of fertile fields. luxuriant meadows, flourishing settlements, neat homesteads, gay villages, and even delightful villas, adorning the banks of the Richelieu, the Yamaska, and the St. Lawrence, whilst in the distance are seen the towering mountain tops of Rouville and Chambly, Rougemont, Mount Johnson, and As the country recedes from Boucherville. the St Lawrence banks to the E and S.E. it gradually swells into ridges, becomes progressively more hilly, and finally assumes a mountainous character towards lakes Memphramagog and St Francis, beyond which it continues to preserve more or less a similar aspect, to the borders of the Chaudière, and the height of land at the Connecticut's sources. Colonel Bouchette, the surveyorgeneral of Lower Canada, to whose valuable observations I am so much indebted in this volume, is of opinion that the range of hills traversing Bolton, Orford, &c., are a continuation of the Green Mountains, which form a conspicuous ridge running from S to W through the State of Vermont. Mr W. E. Logan, the provincial geologist, says, "that between Montreal and Quebec the valley of the St. Lawrence has a general the waters of the numerous lakes and rivers N E course, and presents a flat surface on each bank of the river This plain extends from 12 to 20 miles in breadth on the N W. side of the river, to the flank of a widespread, hilly, but not very elevated country On the S.E. side of the river the plains are 30 to 40 miles wide, and with the intervention of a few moderate undulations, reach different channels; namely, by the Gut of the foot of a range called the Green Moun- Canso (a narrow passage dividing Cape Bretains of Vermont, which, after entering ton from Nova Scotia), by a considerably Canada, decline in height; but a few isolated wider channel between Cape North, in Cape peaks are 4000 feet above the sea. A con- Breton isle, and Cape Ray, in Newfoundtinuous mountain-belt bounds the S.E. side, land, and by the narrow straits of Belle-isle, presenting a gently undulating surface. which separate the coast of Labrador from These ranges of mountain and valley are Newfoundland. The distance from Cape parallel to one another, and to the St. Law-Rosier, Gaspé Bay, lat. 48° 50′ 41″, long. rencc." Several isolated mountains rise 64° 15′ 24″, to Cape Ray, in Newfoundland, from the valleys or plains of Yamaska and lat 47° 36′ 49″, long. 59° 21′, is 79 leagues;

branches), St. Francis, Yamaska, Richelieu (or Chambly), Chateauguay and Salmon all the province. The chief lakes are the Mcmphramagog, of which part belongs to Canada, and part to the United States, Scaswaninipus, Tomefobi, St Francis, Nicolet, Pitt, William, Trout, and many others of less importance

Dr. Thomas Rolfe, who has laboured strenuously in behalf of Canada, remarks, that "from 100 miles below Quebec to 100 miles above Montreal, on both sides of the St Lawrence, there is a most beautiful country, not only cleared, cultivated, and thickly settled, but actually adorned with a continuous line of villages on either bank There is not a point from which the spire of a spacious and elegant parish church does not greet the eye, and frequently there are many to be seen in the same view eastern portion of Canada, and probably the eastern townships, contain the greatest variety of beautiful scenery, mountain, rock, hill, dale, plain, forest, water-fall, lake, and river."

Having thus briefly shown the geographical divisions of East Canada, we may proceed to the examination of the great artery which passes through both divisions of the province, and the islands and districts adjacent, beginning with the

GULF OF ST LAWRENCE, which receives of the Canadian portion of the American continent, and is formed by the western coast of Newfoundland, the eastern shores of Labrador, the eastern extremity of the province of New Brunswick, part of Nova Scotia, and the island of Cape Breton; and communicates with the Atlantic by three Chambly, and give a romantic interest to and from Nova Scotia to Labrador the distance is 106 leagues. lat 47° 50′ 28″, long 61° 12′ 53″.

nificent basin of Lake Superior in East into two branches. Canada, has a course to the sea of nearly nearly due E. from that lake, and then N.E will doubtless be colonized, to the Gulf of St. Lawrence. It receives Erie, the Niagara, between lakes Erie and in the last extremity.

There are several St. Clair the Detroit; between lakes St. islands in the Gulf—the one most dangerous Clair and Huron the St. Clair; and between to navigators, from its position, the steep- lakes Huron and Superior the distance is ness of its shores, and the dense fogs fre- called the Narrows, or Falls of St. Mary. quent on this coast, is in the principal The St Lawrence discharges into the ocean entrance, between Newfoundland and Cape annually about 4,277,880 million of tons of Breton, in lat. 47° 12′ 38″, long. 60° 11′ 24″, fresh water, of which 2,112,120 million of compass variation, 23° 45′ W. The isle is tons may be reckoned melted snow; the named St. Paul's, and is small and barren. quantity discharged before the thaw comes On the S. side of the bay is Prince Edward's on, being 4,512 million of tons per day or St. John's island, which extends in a for 240 days, and the quantity after the crescent-like form 123 miles, but is at its thaw begins, being 25,560 million per day narrowest part only 12 miles across. To the for 125 days, the depths and velocity when northward are the small Magdalen islands, in and out of flood duly considered: hence 11 in number, between the parallels of 47° a ton of water being nearly equal to 55 50' and 47° 38' N. lat, and 61° 27' and 62° cubic yards of pure snow, the St. Lawrence W. long., which were granted to Sir Isaac frees a country of more than 2,000 miles Coffin as a reward for his naval services, square, covered to the depth of three feet. Five or six of them are inhabited by French According to Mr. M'Taggart, the solid Canadian, and English and Insh settlers, contents in cubic feet of the St Lawrence, altogether numbering 1000, who carry on a embracing lakes Superior, Huron, Michiprofitable fishery. Magdalen isle, the largest, gan, Erie, and Ontario, is estimated at is 17 leagues in length, but very narrow, 1,547,792,360,000 cubic feet, and the superbeing in some places not more than a mile ficial area being 72,930 square miles, the wide North of the Magdalens is Brion's water therein would form a cubic column of island, and beyond this are the Bird isles or nearly 22 miles on each side! The emrocks; the most northerly portion being in bouche of this noble river is in that part of the Gulf of St Lawrence where the island The river St. Lawrence, from the mag- of Anticosti divides the mouth of the river

This island, 130 miles long and 30 broad, 3,000 miles, and a varying breadth of from has neither bay nor harbour capable of 1 to 90 miles. Including the lakes Ontario, affording efficient shelter for shipping in Erie, and Huron, through which it passes, bad weather. The aspect is generally low, it is navigable for ships of a large class very but on the north of the island the shore is nearly 2,000 miles, and the remainder of more elevated, and three lofty mountain its course for barges, batteaux, and vessels peaks, with high table land, relieve the drawing little water, of from 10 to 15 and monotonous appearance of so large an exeven 60 tons burthen. The remotest spring tent of flat country The rivers are of no of the St. Lawrence, if we consider the great magnitude, and too little is known of Canadian lakes as merely extensive widen- the soil and nature of the interior to permit ings of it, is the stream called St Lewis in a decided opinion being formed on its quallat 48° 30' N., long. about 93° W., from ity; from the position of the island it may which its general direction through lakes be supposed to be alluvial it is as yet unin-Superior and Huron is S E. to Lake Erie— habited, but as land becomes more valuable,

In 1828 the crew of the Granicus were in its majestic course most of the rivers that shipwrecked on this island, and unable to have their sources in the extensive range obtain any sustenance on its uncultivated of mountains called the Land's Height, shores, they were driven by the fearful and also those intersecting the ridge which cravings of hunger to cannabalism, and the commences on its south bank, and runs last wretched being is supposed to have nearly south-west to Lake Champlain. From perished for want of any more of his unforthe sea to Montreal, this superb river is tunate companions to prey on. The bones called the St. Lawrence, from thence to and mangled remains of the slain, were Kingston in Upper Canada, the Cataraqui found scattered about on the wild coast of or Iroquois; between Lakes Ontario and Anticosti, as if a struggle had taken place

Two light-houses have been erected on the island, one at the east point, the other The ship-channel beat the south-west. tween Anticosti and the main land of East

Canada is about 40 miles broad.

On passing this island, the river St. Lawrence expands to a breadth of 90 miles; and in mid-channel both coasts are visible, the mountains on the north shore having their snow capt crests elevated to a vast height, and appearing more continuous in their outline than the Pyrenean range

At the Bay of Seven Islands, which derives its name from the high and rugged islands which he at its entrance, the St. Lawrence is 70 miles broad There is deep water close to the islands, which appear to rise abruptly out of the sea; the centre of the bay forms a large basin, with a depth of from 10 to 50 fathoms; at its head, the land appears to sink low in the horizon, while that on each side is high and rugged.

From Seven Islands Bay to Pointe aux Pères, there is little to attract attention, except two very extraordinary mountains, close to each other, called the Paps of Matane, nearly opposite to which is the bold and lofty promontory of Mont Pelée, where the river is little more than 25 miles wide. After passing Isle St Barnabé, the voyager arrives at Bic island (153 miles from Quebec), which is three miles in length, and nearly one in breadth. Good anchorage i found here. The adjoining seigniory of Bic on the main land is mountainous, and very uneven.

Proceeding onwards, several beautiful groups of islands are passed in succession viz., Green island, Red island, Hare island Kamouraska island, the Pilgrims, Brandy Pots, and a variety of others, all wooded and some of them inhabited and cultivated The Brandy Pots cluster is about 103 miles from Quebec. Opposite Green island, on the north shore, is the mouth of the Saguenay river. The St. Lawrence is here 20 miles wide, with an average depth of 12 fathoms and the village of Kamouraska in the county and seigniory of the same name, is a favourte watering place of the Canadians. The mountains on both sides are very lofty often terminating in capes or bold head lands, and producing an imposing effect; in general, and especially on the south side a low, level, and cultivated tract of land of various breadth, intervenes between the river and the mountain range, and the de licious verdure of its corn fields contrasts

nely with the sombre hue of the pine orests in the elevated and over-shadowing back ground. The cultivated Isle aux Coudres next meets the eye, and is followed by a delightful prospect of the settlement of he Bay of St. Paul, enclosed within an

mphitheatre of high hills.

The Isle aux Coudres is 5 miles in length and 15 in circumference, and is distant about 2 miles from the north shore of the St Lawrence river, and nearly opposite the Bay of St. Paul: compared with the neighbouring land it is low, but becomes more levated towards the centre The shore in a few places rises abruptly from the water, and is thickly covered with shrubs and creeping plants; in general, however, it is of easy ascent, and rendered picturesque by the numerous farms on it. The island wes granted in 1687 to the ecclesiastics of the seminary of Quebec, to whom it still belongs. Although the breadth of the river is 13 miles, the navigation here becomes difficult, owing to the narrowness of the main ship-channel called the Traverse, which is contracted to 1,320 yards, by the Isle aux Coudres, the shoal of St. Roch, and English There are two other channels, but bank the rapidity of the current is much greater in them than in the Traverse, and the holding-ground bad; notwithstanding, with a good pilot and a favourable wind, there is little or no risk. Where the river du Sud forms a large basin, and disembogues into the St Lawrence, the latter is 11 miles in breadth, and the country assumes a charming aspect, the succession of villages, churches, telegraph stations, and farmhouses, all painted white, produce a dazzling contrast to the dark woods which clothe the rising grounds in the distance to their very summits, and present a landscape of varied Before arriving at the island of Orleans (four miles north-east of Quebec), Goose and Crane islands, and many smaller ones (almost all inhabited), are passed Orleans, or Isle St. Laurent, 19 miles long, five and a half broad, and comprising an area of about 69 square miles, divides the river into two channels. The shores decline gradually to the beach, but the land rises considerably towards the western extremity of the isle, which is richly tilled by a population numbering 5,000, who derive much advantage from the sale of their horticultural and agricultural products in the neighbouring markets of Quebec. The south channel is always used by ships; the main-

The country below and above Quebec for some distance presents scenery whose beauty is unequalled in America, and probably in From the eminence over which the world. the post-road passes, or in sailing up the St. Lawrence, there are frequent prospects of immense extent and variety, consisting of lofty mountains, wide valleys, bold head-lands, luxuriant forests, cultivated fields, pretty villages and settlements, some of English honours. them stretching up along the mountains. fertile islands, with neat white cottages, rich pastures and well-tended flocks; -rocky islets, and tributary rivers, some rolling over precipices, and one of them, the Saguenay, like an inland mountain-lake, bursting through a perpendicular chasm in the granitic chain; while on the bosom of the St. to 20 miles, ships, brigs, and schooners, either under sail or at anchor, with innumerable pilot-boats and river craft, in active motion, charm the eye of the immigrant or traveller.

truly magnificent; on the left, point Levi, with its romantic church and cottages; on the right, the western part of Orleans isle, which closely resembles our own sweet Devonshire coast; beyond, the lofty mainland opens to view, and the spectator's attention is riveted by the magnificent falls of Montmorenci, a river as large as the Thames at Richmond, which precipitates its vast volume of constantly flowing waters over a perpendicular precipice 240 feet in height: the eye then runs along miles of richly cultivated country, terminating in a ridge of mountains, with the city and battlements of Quebec, rising in the form of an amphitheatre, cresting, as it were, the ridge of Cape Diamond, and majestically towering above the surrounding country, as if destined to be the capital of an empire.

Etymologists have exercised their inge-

land opposite is lofty, and in some places city owes its name to a place on the Seine, mountainous, but so well cultivated that a called Caudebec,—but Hawkins in his "Piclarge tract in the vicinity of the Sud, which ture of Quebec," states the word to be of flows through a picturesque, extensive, fer- Norman origin, and gives an engraving of a tile, and thickly settled country, has long seal belonging to William de la Pole, Earl been familiarly called the granary of the of Suffolk, dated in the reign of Henry V., A.D. 1420. The legend or motto runs thus: " Sigillum Wilhelmi de la Pole, Comitis Suffolchiæ, Domini de Hamburg et de Quebec." Suffolk was impeached by the Commons of England in 1450, and one of the charges against him was his unbounded influence in Normandy, where he hved and ruled like an independent prince; it is not therefore improbable that he enjoyed the French title of Count of Quebec in addition to his

> Quebec Citadel is situated upon the N.E. extremity of a rocky ridge or promontory, called Cape Diamond, 350 feet above the St. Lawrence. The cape extends into the St Lawrence towards point Levi on the opposite or right bank of the river, which is at this spot less than a mile in width.

The citadel (see Map, East Canada) is built Lawrence, with a breadth varying from 10 on the peak of the promontory. About 40 acres are covered with the works, which are carried to the edge of the precipice. About 100 feet below the cliff on which the citadel is built is the elevated plain on which the city of Quebec stands, and this within a cir-The scenery, on approaching Quebec, is cuit of 3 miles is enclosed with strong fortifications connected with the commanding citadel. From the city there is a rapid descent of 200 feet to the river St. Lawrence, and within the narrow limits of the base of this precipice and the river, the lower town of Quebec is situated, opposite and contiguous to the shipping, where the merchants and traders carry on their useful pursuits. The N. side of the promontory has apparently been chosen as the site of the town, from its slope being more gradual than that on the southward, which is preci-To the N. the ground declines pitous. gently until within 100 feet of the St. Charles valley, when it becomes precipitous. The St. Lawrence flows to the southward of the city, where it is only 1314 yards wide, washes the base of the steep promontory of Cape Diamond, and receives the waters of the small river St. Charles, which flows to the nuity in tracing the origin of the word N. of the city, their junction being in front Quebec: some suppose it an Indian word of the town, where they expand into a consignifying a strait: others are of opinion siderable basin of 32 miles long, with a depth that it arose from the Normans exclaiming of 18 to 28 fathoms, forming the harbour of when they first beheld the lofty promontory Quebec. The distance from one river to -" Quel-Bec!"-It is even said that the another across the ridge is rather more than a mile. On sailing up the river, nothing of picturesque. the city is seen until the spectator is nearly stands is also cultivated to the westward in a line between the W. point of Orleans as far as Cape Rouge. A range of mounisle and Point Levi, when there suddenly tains to the northward, limits the extension bursts upon the view an abrupt promontory 350 feet high, crowned with an impregnable citadel (the Gibraltar of the New World), than 50 inhabitants; in 1759 the population surrounded by strong battlements, on which was estimated at between 8 and 9000; in the British banners proudly wave; cathe- 1825 and 1831 the census gave as follows: drals and churches, warehouses, a fleet of ships at Wolf's Cove, and others at the wharfs; steamers plying in every direction; boats of every shape; ships on the stocks, or launching; the waters of the majestic cataract of Montmorence rushing into the St. Lawrence over the projecting ledge; the churches, houses, fields, and woods of Beauport and Charlesbourg, with mountains in the distance; the high grounds, spire, &c. of St. Joseph; some Indian wigwams and canoes near Point Levi, and vast rafts or masses of timber descending the noble river from the forests on the Ottawa.

The city, as before observed, is nominally divided into two parts, called the Upper and Lower towns; the latter being built at the base of the promontory, level with high water, where the rock has been removed to make room for the houses, which are generally constructed in the old style, of stone, two or three stories high. The streets are narrow and ill ventilated. From the Lower to the Upper town there is a winding street (Mountain-street), extremely steep, which is commanded by judiciously planted cannon, and terminates at an elevation of 200 feet above the river, at the city walls, or "Break Neck Stairs," where the Upper town commences, extending its limits considerably to the westward, along the slope of the ridge, and up the promontory towards the Cape, to within 50 or 60 yards of its summit. The aspect is N., and it is on the whole well ventilated, although the streets are narrow and irregular. There are suburbs to each town; those of the Upper extend along the slope of the ridge called St. John's; those of the Lower, extend from the St. Charles along the valley called the "Rocks." influence of the tides, which extend several leagues beyond Quebec, raises the waters at the confluence of the two rivers many feet above their ordinary level, and overflows the St. Charles valley, which rises gradually from the river to the northward, in a gentle slope for a few miles, until it reaches the mountains. This valley and slope is wholly under cultivation, and extremely rich and

The ridge on which Quebec of cultivation in that direction.

In 1662 Quebec did not contain more

	1825.		1831.	1848.
	Houses	Pop.	Pop	Pop.
Quebec — Upper Town . Lower Town . Suburbs of — St. Roch St. John	480 549 1,128 843 120	4,163 3,935 6,273 6,025	4,498 4,933 7,983 6,918 1,583	No census.
Total, exclusive of the Banheue of St John and St Lewis	3,120	20,396	25,916	

As a fortress Quebec may be ranked in the first class; the citadel on the highest point of Cape Diamond, is defended by a formidable combination of strongly constructed works; small batteries connected by ramparts, are continued from the edge of the precipice, to the gateway leading to the Lower town, which is commanded by cannon of a large calibre, and the approach to which, up Mountain-street, is enfiladed and flanked by large guns: a line of defence connects with the grand battery a redoubt of great strength, armed with 24 pounders, entirely overlooking the basin and passage of the river. Other lines add to the impregnability of Quebec, which, well garrisoned, secure to us the navigation of the St. Lawrence. There are five strong gates in the walls which surround the city: the entrance from the Lower town is by Prescott-That portion of the promontory which declines in height by successive ridges towards the interior, is fortified by a series of regular works, viz.: a moat, covered way, and glacis, with exterior defences to obstruct an enemy. The face of the city towards the river is so steep, that excepting the passage by Mountain-street, it requires only a wall for its protection. Four Martello towers on the heights of Abraham, in front of the fortifications range the whole plain to the west-

The population is now about 40,000.

to that of most of the European capitals; it contains equipments for 25,000 men, which can be furnished at a few hours' notice.

are the celebrated plains of Abraham, on which Wolfe and Montcalm fought and perished, and to whose glorious memory the gallant Earl of Dalhousie has erected an obelisk with the following appropriate inscription -- Mortem virtus communem famam historia monumentum posteritas dedit. Hanc columnan in virorum illustrium memoriam partibus ad Britannos, pertinentibus summum rerum administrans; opus per multos convenientius? Auctoritate promovens, exemplo stimulans, munificentia fovens. A.S. MDCCCXXVII.—Georgio IV. Britanniarum Rege.' Lord Aylmer, in 1834, erected a small column with the inscription,—"Here in conjunction with the troops under his fashion. ment in memory of Wolfe on the plains of could be checked. Abraham, consisting of a column 40 feet veller, Sir James Alexander.

and from its pure and simple taste, and neat &c, are conveyed to the metropolis. spire, is much admired. The Scotch church Hotel-Dieu, founded in 1637 by the Duchess contrived to float on its bosom. cemetery, gardens, and an excellent hospital, and planked as lesser sized vessels, and not

The armoury of Quebec is superior where the prioress and 32 nuns are continually employed in ministering to the sick. The Ursuline convent, founded in 1639, by Madame de la Peltrie, is in the centre of the On the W. and in front of the citadel, city, surrounded by five gardens. The nuns, 46 in number, maintain a strict seclusion, but educate many of their own sex. The embroidery, especially for sacerdotal robes, &c., is highly celebrated.

The grand parade in front of the castle, surrounded by the principal edifices; the esplanade along the exterior wall, where the troops are reviewed; the market-place, 250 WOLFE et MONTCALM, P.C. Georgius, Comes feet long by 150 broad; and the noble aspect de Dalhousie in Septentrionalis Americae of many of the buildings, both public and private, give an animated appearance to the city.

On the 28th May, and on the 28th June, annos prætermissum, quid duci egregio 1845, two great fires occurred, which destroyed much of the Lower town, and the dwellings of 20,000 of its inhabitants. The conflagration destroyed part of St. Vallier, all St John suburbs, part of St. Lewis, nearly all St. Roche, and the west part of the died Wolfe in the arms of victory." And Sir Lower town gate. Many of the houses Benjamin D'Urban, another brave soldier, were built with wood after the French The first fire extended a mile command in Canada, in 1848 raised a monu-through a densely peopled suburb before it

The town in general is pretty much like high, surmounted by a helmet enriched an English or rather a French city, except with laurel and a sword, after the design of that the houses are mostly roofed with shina distinguished soldier and intelligent tra- gles (small pieces of thin wood); many of the best houses, public buildings, and great A great number of elegant and commo- warehouses, are, however, covered with tin dious public buildings adorn Quebec-such or iron plates, which, owing to the dryness as the Hotel Dieu, the Ursuline Convent, of the climate, retain their brightness for the Jesuit's Monastery (now a barrack), the many years. There are several distillenes, Protestant and Catholic Cathedrals, the breweries, tobacco, soap, candle, and other Scotch Church, Lower Town Church, Trimity manufactories; and every description of and Wesleyan Chapels, Exchange, Bank, tradesmen may be found in the Upper and Court House, Hospitals, Barracks, Gaol, Lower town. Many of the shops, or as they Seminary, &c. The Roman Catholic cathe- are called in America, stores, are fitted out dral is 216 feet long by 180 broad, and is with taste, and in most of them every variety capable of containing a congregation of 4000 of goods, from a needle to an anchor, or a people. It has a lofty dome, which pro- ribbon to a cable, is to be found. A steamduces an imposing effect. The religious ser- ferry plies constantly between Quebec and vices are performed with much ceremony; the opposite shore at Point Levi. In severe the bishop and 50 priests sometimes officia- winters this channel is completely frozen ting. The Protestant cathedral, 136 feet over, and a line of road is marked with long by 75 broad, is built in a plain style, beacons, by which provisions, hay, wood,

Many ships are built at Quebec. On the is of less magnitude. Of three nunneries at W. point of Orleans were built the Columbus Quebec, two have hospitals attached, in which and the Baron of Renfrew, those vast leviagreat relief is administered to the poor. The thans of the deep which human ingenuity d'Arguillon, includes a convent, church, ocean castles were strongly framed, timbered put together like rafts as generally supposed. are thickly interspersed corn fields, orchards, 320 feet, breadth 50, extreme depth 40 feet, of the mountain, trees grow in luxuriant and she had four gigantic masts, with every appurtenance in proportion; 3000 tons weight were put on board of her before aunching. It may be remembered that she reached England safely, and was waterlogged on her return to Canada: the equally huge Baron of Renfrew reached the Thames, and was wrecked off Gravelines.

Proceeding onwards the St. Lawrence again widens after passing Quebec, while the banks, gradually losing the elevation observable at Cape Diamond, become sloping, and delightfully varied with groves, churches, white cottages, orchards, and corn fields, until arriving at Richelieu Rapid, 45 miles above Quebec; thence to Three Rivers (52 miles), there is little change in the general aspect of the banks of the St Lawrence, the high lands receding to the N. and S. with a low but cultivated country. About 6 miles above Three Rivers, the St. Lawrence expands itself over a level country, and forms Lake St. Peter, which is about 20 miles in length, by 15 in breadth, but very shallow. At the head of the delta of the lake, the St. Lawrence receives the comparatively small but beautiful river Richelieu; in some places called Chambly—at others, Sorel. To Montreal (90 miles from Three Rivers) the scenery is varied rather by the hand of mostly consecrated to the memory of some saint, and so thickly peopled as to appear populous.

Hochelaga, now the capital of the province of Canada, in 45° 31' N. lat., is situate upon water. By means of steam-tugs from Quethe N. or left bank of the St. Lawrence. at the head of the ship navigation of the river, about 600 miles from the sea, and upon the southernmost point of an island bearing rica. the same name, which is formed by the river the Ottawa, or Grand River, on the N. The ward was: -St. Mary, 12,285; St. Lawrence, island is 32 miles long, by 10 to 12 broad 12,235; Queen's, 13,571; West, 2,285; its surface is an almost uniform flat, with East, 1,912; Central, 1,805. Total, Males, the exception of an isolated hill or mountain on its W. extremity, which rises from 500 Of these 19,041 were French Canadians; to 600 feet higher than the river level. 8,863 British ditto; English, 3,161; Scotch,

The length of the Columbus on deck was and villas, above which, to the very summit variety. The prospect from its summit, though wanting the sublime grandeur of the view from Cape Diamond at Quebec, is exceedingly picturesque: on the south, the blue hills of Vermont, and all around a vast extent of thickly inhabited, richly cultivated and fertile country, embellished with woods, waters, churches, cottages, and farms-below it the placed city of Montreal-its shipping and river craft, and the fortified island of St. Helena, altogether producing a scene of soft and singular beauty. In 1640, the spot on which the city stands contained an Indian village, in which the French formed a missionary station. Within a mile to the N.W. of the town the range of the mountain gradually declines for a few miles to the W. and N., to the level of the surrounding country. The bank of the river upon which Montreal is built, has a gradual elevation of from 20 to 30 feet, but declines in the rear of the town, where there is a canal to carry off any accumulation of water: the land then again rises towards the N. to a higher The wharfs are said to be better ridge. than any other similar structures in America, and consist of a range of massive masonry more than a mile in extent. The harbour adds greatly to the beauty of the city, and from the "Forwarding Houses" on man than by nature, with the exception of the La Chine canal, to the foot of the curnumerous alluvial and richly tilled islets; rent of St. Mary, a distance of 2 miles, the many parts are picturesque and highly culti- river St. Lawrence is covered with ships, vated, there being a succession of parishes steamers, barges, and boats of every description, during the time the navigation is open. Extensive basins are being constructed one continued village; the N. shore, through along the enlarged La Chine canal, to afford which the post-road passes, is the most the means of steam-boat communication with the great lakes; and a channel is be-Montreal, formerly the Indian village of ing deepened in Lake St. Peter, to render it navigable for vessels of a large draught of bec to Montreal, 180 miles distance, the Canadian metropolis will probably become one of the most important seaports in Ame-The city, comprised within the Upper and Lower town, is divided into wards, and in St. Lawrence on the S., and by a branch of 1844 the number of inhabitants in each 20,404; Females, 23,191, in 6,252 houses Along its base, and particularly up its sides 2,712. Irish, 9,595; United States, 701, from other places, 212. In 1844 there belonged to the Church of Rome, 29,280 citizens; 6,706 to the Church of England, 4,349 to the Church of Scotland; and 4,255 far largest portion of the capital and enterprise of Montreal belongs to the inhabitants of British origin The good taste, liberality, and zealous endeavours of the Hon. James of this handsome and prosperous city. The Hôtel-Dieu, a conventual structure, and the Montreal General Hospital, built in 1822, by voluntary subscription, at a cost of £6,000, are excellent charities. The St Sulpician Seminary is a large building, occupying three sides of a square adjoining the In this institution, and in the M'Gill College, all branches of learning are taught at moderate charges. The large nunnery of Nôtre-Dame has a superior and 60 sisters, who receive boarders at a small charge, and prepare teachers, whom they send to different districts Another large nunnery, called the Sœurs-Gris (Grey Sisters), consists of a superior and 24 nuns, who admit into their spacious and charitable mansion the infirm poor, where, in a christian spirit, they administer spiritual consolation, food, and medicine. There are several handsome English and Scotch churches. The English Episcopal church is a fine building with a lofty spire. Whole streets of private buildings, many of them outside the city (whose entrenchments have been levelled some years since), have been recently constructed. Various public structures belonging to banks and corporate institutions adorn the capital. During the riots of 1849, on the passing of the Rebellion Losses Indemnity Bill, the building in which the Canadian Parliament met was burnt by the mob, and the library of the Legislature, one of the most valuable in British America, was destroyed. The city and private houses are lit by a gas company, and the corpoation possess extensive water-works. The Harbour Commissioners have expended upwards of £100,000 on the improvement of the harbour, which affords a revenue of more than £10,000 a-year. The three principal streets are parallel with the river, and intersect each other at right angles; the houses are for the most part of a greyish stone, covered with sheet iron or tin: many of them are handsome structures. Among the principal edifices are the Hôtel-Dieu,

Hospital, the New College, Hôpital Général des Sœurs Gris, the French Cathedral, English and Scotch churches, Court House, Government House, Nelson's Monument, of other and various denominations. The Barracks, Gaol, &c., &c. The Roman Catholic cathedral is the most splendid temple of worship in the New World, and its exterior grandeur is scarcely surpassed in the Old. It was commenced in 1824, finished M'Gill contributed greatly to the adornment in 1829, and dedicated to the Virgin Mary In length it is 255 feet, in breadth 134, and the height of the walls, which are faced with cut stone, is 112 feet. The architecture is of the rich Gothic of the thirteenth century. It has six massive towers, between which is a promenade along the covered roof 25 feet wide, elevated 112 feet. There are 7 chapels and altars, and 9 spacious aisles: the high altar resembling that of St. Peter's at Rome-the pulpit that of Strasburg cathedral. The E. window behind the grand altar is 70 feet high by 33 feet broad; the other windows 36 feet by 10. rounded by a fine terrace, and its chime of bells, clocks, altars, &c., correspond with the magnificent exterior. This magnificent structure contains 1244 pews, and will accommodate 12,000 persons, who may disperse in 6 minutes by 5 public and 3 private entrances There are various public institutions in Montreal, which indicate the advanced state of the colony. The University College has Professors of Divinity, Classics, Mathematics, Natural Philosophy, Medicine, Surgery, Midwifery, Anatomy, Materia Me-There is a College of Medicine for instruction in all branches of the healing art. Among the other institutions are the High School of Montreal, Baptist College, Congregational Theological Institute, Royal Grammar School, National School, British and Canadian School, Free ditto, Natural History Society, Mechanics' Institute, Mutual Instruction Society, Shakespear Club, several public libraries belonging to different associated bodies; National societies of St. George, St. Patrick, St. Andrew, German, and St. Jean Baptiste. Various Religious, Bible and Missionary, Tract and Sunday-School Associations. Benevolent institutions, viz. :- the Montreal General Hospital. Lying-in Hospital, Dispensaries, Lunatic, Magdalen, and Orphan Asylums: 6 Turf, Cricket, and Curling Clubs, four "Freemasons and 8 "Odd-fellows' "Lodges.

In the extent and importance of her trade -in the beauty of her public and private the Convent of Notre Dame, the General buildings-in the gay appearance of her

shops, and in all the external signs of cipitous channel down which the vast torwealth, Montreal is rapidly increasing. Its rent rushes with terrific violence, as if population in 1825 was 22,357; in 1831, roused to fury by the opposition it had met 27,297; in 1844, by census, 44,093; and with in its mighty career. the city, together with the suburbs and the greatly heightened by the close vicinity in remainder of the island, are estimated at 70,000. The whole island is comprised in one seigniory, and belongs to the St. Sulpicians, who are consequently possessed of much power, which, however, they use with moderation, and are by no means rigorous in exacting the lods et ventes due to them on the mutation of land, which are usually compounded for.

The Ottawa, or Grand River, divides Eastern and Western Canada, and has a course between Montreal and Lake Temiscaming of above 350 miles in length; but if we regard this lake as only an extension of the river, in the same manner as we have already done Lakes Ontario, Erie, Huron, Superior, &c., while examining the course of the St. Lawrence, we must attribute the Temiscaming. Allumettes, is little used except by the furtraders, though up to that point it is regularly frequented by the lumberers, who find profitable and abundant employment in floating down the river, in rafts constructed for the purpose, vast quantities of pine and oak. The natural obstructions to this traffic have been greatly removed by several slides erected in various parts of the Ottawa and its tributaries. At the Allumettes, the Ottawa divides into two channels, the one passing N.E., the other S.W. of an island 15 miles long by 4 broad, which is said to be eminently fertile and fast settling; it then forms three small lakes called the Allumettes, the Mud, and the Musk Rat. Eight miles below the junction of these channels is Fort Coulange, a trading port of the Hudson's Bay company, near which is a flourishing settlement.

Four miles further south, the Ottawa again divides, and forms an island 20 miles in length by 7 in breadth, called the Grand romantically situated on the south bank of Calumet, and the rapids and falls at this

point are exceedingly grand.

There are four principal chutes, -one, especially being wild and romantic in the extreme, from the narrow, lofty, and pre- minating in the Falls des Chats, that to

The effect is which the traveller may behold this magnificent cataract. Another of these falls Mr. Barker (an eye-witness) describes as having a peculiar character. He speaks of the water as falling at first in the shape of a horse-shoe, placid and smooth as glass or oil, until it meets in the centre of the chute, and changes at once into noisy boiling foam. He also mentions a slide, over which immense quantities of red pine are annually carried, excavated in canal form out of the solid rock on the island side of the chutes. It was built by the provincial government m 1844 at a cost of more than £11,000.

For the next 10 miles after leaving the cascades, the Ottawa is picturesquely diversified by groups of beautiful and richly wooded islets, which separate it into nusource of the river to a remote spot in the merous channels, through which the iminterior, more than 100 miles from Lake petuous waters rush with various degrees On this lake the Hudson of violence, while the romantic singularity Bay Company have a trading post, but of of the prospect is enhanced by the banks the surrounding country we have no accu- being chiefly composed of white marble, rate description—indeed, the upper part of which may be traced for several miles. the river above the Falls and Portage des At the end of this wild labyrinth of wood and water the magnificent Lake des Chats meets the view; its extreme length is 15 miles, and its average breadth 1, but several deep bays encroach upon the land, and extend its breadth in places to nearly 3

miles.

On the E. Canada side are the townships of Onslow, Clarendon, and Latchfield; and on the west side are those of Macnab, Horton, and Ross. The township of Bristol also is in a flourishing state. Three rivers, the Mississippi (or Nisisippi), the Madawaska, and the Bouchere, empty themselves into the lake, and are fine streams, much used by the lumberers; their shores are gradually being cultivated, and even in the interior there are several settled tracts of land. Richly wooded islets adorn the lake, which is also distinguished by the singularly glassy appearance peculiar to the waters of the lovely Ottawa.

Kınnell Lodge, and other mansions, are the lake, a few miles below the Rapides des Chats, which are 3 miles long, and pass amid a labyrinth of islands, through which they rush with great violence, terChaudière (Kettle). The principal falls are monotony this part of "Ottawa's tide." 60 feet in height by 212 in width, and having been one morning carried over by line of confluence distinctly visible. the waters into the Lattle Chaudière, and eddies, bridges have been thrown over it, source of remunerative employment. of nature's grandest and most wild objects are called from their connecting Eastern and Western Canada, consists of four principal parts, two of which are truss bridges, overhanging the channels, and unsupported it contained only 150 wooden houses. by piers; a third is a straight wooden bridge, and a fourth is built partly of dry stone (with two cut lime-stone arches) and partly of wood.

The truss bridge over the broadest channel is 212 feet long, 30 feet wide, and 40 above the surface of the Ottawa. township of Eardly extends along Lake Chaudière, and is followed by the important and rapidly increasing settlement of Hull, and quarries of marble.

the number of 15 or 16, extend in a curved 60 miles distant. The current is gentle. line across the river. The Falls are divided the river banks low and generally flooded by wooded islands, and are from 16 to 20 in spring to a considerable distance, espefeet in height. The bed of the Ottawa cially on the north or Lower Canada side; then contracts, but about six miles below but though the scenery is somewhat tame, this point it again expands, and forms the it is always pleasing, and as described by basin of Lake Chaudière, which is 18 miles colonel Bouchette, the frequently varying long by 5 broad, and terminates like the Lake width of the river-its numerous islandsdes Chats in rapids, which dash on through the luxuriant foliage of its banks-and the the small grove-clad islets with different growing settlements appearing here and degrees of violence, until they reach the there on the skirts of the forest, or the vortex of those broken, irregular, and extra- margin of the stream, in themselves posordinary chasms called the Great and Lattle sessed of sufficient interest to preserve from

At Grenville commences the impetuous an immense basin of circular rock attracts rapid termed the Long Sault, which is only by forcible indraught a considerable pro- descended by voyageurs, or raftsmen of portion of the boiling waters, while those experienced skill and energy. Below Long beneath, in their violent struggle to escape, Sault the Ottawa continues, at intervals, send up clouds of spray which conceal the rapid and unnavigable as far as Point Forbottom of the cataract, and ascend, at in- tune (immediately opposite the east outline tervals, above its summit. A large portion of Chatham), where it expands into the of the water being unaccounted for, is sup- lake of the Two Mountains, and finally posed to escape by subterraneous channels, forms a junction with the St. Lawrence for half a mile further down the river the river below the cascades, where the remarkwater comes boiling up, it is said, from the able hue of the waters of the Ottawa Chaudière. Among the strange tales told strongly contrasting with the blueish-green concerning these falls, is one of a cow of those of the St. Lawrence, renders the

The Ottawa region is within the temcoming up uninjured at Fox Point, 10 miles perate zone; in general level, or moderately down the river. Immediately below these undulating, well watered, and covered with falls, where the stream still rushes in rapid fine timber, which affords an unfailing and offer singular specimens of science and Bytown tract extending for 200 miles, from skill, placed as they are by the side of one the embouche of the Ottawa to the Upper Allumettes lake gently slopes to the river, The chain of these union bridges, as they has extensive level tracts of fertile soil, and is the chief seat of the Ottawa settlers. The progress of Bytown, on the right bank of the Ottawa, has been very rapid; in 1831

The Saguenay River rises in Lake St. John, which is situated between 48° 27' and 48° 51' N. lat., and is about 100 miles in circumference. It has a course of 108 miles before its junction with the river St. Lawrence, 100 miles below Quebec; it The varies in width, and its passage, like that of other American rivers, is interrupted by foaming torrents. At its confluence with the St. Lawrence at Tadoussac in lat. 48° which is watered by the large river Gati- 5', long. 69° 37', the Saguenay discharges neau, and contains valuable mines of iron not less than 2,500,000 cubic feet of water per hour, double the quantity that the St. Below the Chaudière Falls and union Lawrence sends past Quebec. The depth bridges, the Ottawa has an uninterrupted at its mouth in mid-channel has not been navigation for steam-boats to Grenville, ascertained; captain Martin could not find bottom with 330 fathoms of line; two miles have encouraged cultivation in the interior. higher the soundings were 140 fathoms, Grain, especially oats, thrive, as do also and at 70 miles from the St. Lawrence, potatoes. The fixed population is about from 50 to 60 fathoms. It has been since 5.000. There are several sawing mill estabstated, that a ridge of rocks below the sur- lishments around Ha-Ha Bay, and also face of the water, lies across the Saguenay's above and below it on the Saguenay, which mouth, through which there is a channel is well adapted for water power. The saw 120 feet deep, and that in the middle the ogs, though not so large in butt and stem depth increases to 840 feet; if this be so, as the produce of the Ottawa, or of New the bed of the Saguenay must, necessarily, Brunswick, grow to a considerable height, be 600 feet below that of the St. Lawrence, and being more free from knots, furnish into which it falls. Its reported terrific deals of a closer and better grain. whirlpools do not exist. Thirty rivers pour their tributary waters into the Saguenay, Chicoutimi, 18 miles higher up, the river many of them navigable for large boats, has for 8 miles a width of about 2; its The banks of this noble stream vary from banks become much less elevated, and at 200 to 2,000 feet in height, rising in some the end of that distance it narrows to about places perpendicularly from the river's side; half a mile, and diminishes greatly in depth. the scenery throughout being wildly mag- Farms, well-built wooden habitations, and Trinité beetle over the broad, rapid and seen in every sheltered nook or ravine deep torrent to the elevation of 1,800 feet, running down to the river. and sink plomb down 900 feet below its has been settled by squatters from Malbay surface. An experienced traveller who and St. Paul's Bay. Groups of well convisited the Saguenay in 1845, says—"the ditioned horses, and herds of fine cattle, whole descent from Ha-Ha Bay to Tadoussac speak well for the condition of the district. can be compared to nothing that I have The Hudson's Bay Company have a post at ever seen for the magnificence and extent Chicoutimi (60 miles from Tadoussac), conof its scenery, unless, perhaps, to the passisting of a good store and out-buildings, sage through the highlands of the Hudson, near which is a little old chapel, built by if you can imagine that chain of heights the Jesuits in 1726, for the converted Incontinued for 40 miles, and its elevation dians of the Montaignais tribes increased some hundreds of feet." The mixed growth of timber here, consisting of Point aux Bouleaux and the land for some maple, black and white birch, and spruce, distance on the west side of its mouth, are indicates the strength of the soil, which alluvial deposits, containing probably the appears to be a blue clayey loam. richest soil in the world, being composed of a government has laid out a town-plot on the species of soapy-grey marl, from 30 to 40 feet point opposite the Hudson's Bay Company; deep. There is a very remarkable harbour, and a new and valuable settlement will, 40 miles from the mouth of the Saguenay, doubtless, be formed, not only for the called Bay de Has, or Ha-Ha Bay, capable sawing of timber, but also for the proof affording shelter to the largest ships of duction of food. the line, and to the whole navy of England, which may sail directly into the bay with empty themselves into the St. Lawrence, the same wind that brought them to its require to be briefly noticed. The bay is from 7 to 9 miles in length, and 21 in width, with good St. Lawrence on the northern shore, we anchorage varying from 15 to 35 fathoms. arrive at the Ha-Ha Bay opens into another bay or a rich soil of blue and grey marl, sur- in that respect only to the Ottawa and round these singular bays, extending to Saguenay. It drains an extent of country Lake Kiguagomi, which is joined to the more than 140 miles in length, and from 20 Saguenay by the circuitous route of the to 100 m breadth, equivalent to 8,400 square Chicoutimi river. In the neighbourhood of miles. The source of the stream is a large Ha-Ha Bay, which is surrounded by hills, a lake called Oskelanaio, near the skirts of the European settlement has been commenced; N.W. ridge of mountains. Its course is and the saw-mills belonging to Mr. Price generally from N. to S., inclining a little to

Proceeding from Ha-Ha Bay towards The cliffs of the Capes de la crops of grain, potatoes, and hay, are to be The place

A few other rivers of East Canada which

Proceeding from the Ottawa down the

St. Maurice or Three Rivers, which Vast tracts of arable land, with although of inconsiderable depth, is inferior rivulets and lakes during its progress.

nay, Ribbon, Windigo, Vermillion, Bastonais, passing the falls of the last-named river, the of the great Canadian earthquake of 1663. St. Maurice turns again to the south, and has its embouche in the St Lawrence below several islands. The banks of the St. Mauplaces a depth of 40 fathoms extremely beautiful and have a perpendicular turesque scenes in America. descent of 30 feet. The stupendous falls of the Shawenegan, 64 miles lower than the Hêtres, are magnificent, the fall being 150 perpendicular feet .—the river rushing with terrific violence in two channels against the face of the cliff below, then reuniting, the vast and foaming torrent forces its way through a narrow passage not more than 30 yards wide. Before quitting the St. Maurice, it may be proper to observe, that the large river Aux Lievres, which has a course of upwards of 150 miles to the Ottawa, anastamoses with the St. Maurice, by means of a chain of lakes

Champlain River rises in the Seignory similarity to the moving bogs in Ireland. A low.

the eastward, and receiving many tributary was accompanied by an appalling sound, and a dense and suffocating vapour, as of pitch Among the former are the Kasikan, Pis- or sulphur, filled the atmosphere. authority for this statement is Colonel Bou-Rat, Mattouin, and Shawenegan. After chette; it appears to corroborate the truth

Montmorenci River, also a tributary of the St. Lawrence, rises in the Lac des the town of Three Rivers, where it forms Neiges; and flows in a continued cuirent, until it forms the celebrated cataract of rice are generally high, and covered with Montmorenci, where its breadth is from 16 large groups of fine majestic trees; naviga- to 20 yards, and the height of the fall about tion for boats is practicable for 38 leagues 250 feet, 100 more than that of Niagara; but to La Tuque, with the exception of the the volume of water is comparatively small. portages. At Wemontichinque in 47° N. the A slight declination in the bed of the river St. Maurice is divided into three branches, before it reaches the fall, gives great velocity of which the W forms an extraordinary to the stream, which is precipitated over chain of lakes and navigable waters, 23 in the brink of the perpendicular rock in an number, varying in size, and having in many extended sheet of a fleecy appearance There are Immense clouds of spray rise from the botabout 14 small islands of different sizes in tom in curling vapours, and present an various parts of the St. Maurice, and there inconceivably beautiful variety of prismatic are a variety of falls and cascades of greater colours. The late Duke of Kent resided in or less extent. Those of Grand Mère, about a house close to the falls, which commanded 4 miles above the Hêtres fall or cascade, are a beautiful view of one of the most pic-

Chaudiere River rises from Lake Megantick, and waters a country of 100 miles in length, by about 30 in breadth, thus clearing nearly 3,000 square miles of territory of its redundant waters: in breadth it varies from 400 to 600 yards, and is frequently divided by islands, some of them containing many acres, and covered with timber-trees banks of the Chaudière are in general high and steep, thickly clothed with wood, the bed of the river is rugged, and often much contracted by rocks jutting out from the sides, which occasion violent rapids, one of the most celebrated of these is about four miles from its mouth. Narrowed by salient of Cap de la Magdelaine; running N.E., it points extending from each side, the precitraverses the country to Champlain, enters pice over which the waters rush is scarcely Batiscan, where it turns S., and after form- more than 130 yards in breadth, while the ing the boundary between the latter seigniory height from which they descend is as many and Champlain, it falls into the St. Law- feet; huge masses of rock rising above the This river, though of small size, is surface of the current at the break of the deserving of notice from an extraordinary fall, divide the stream into three portions, circumstance, stated to have occurred on its forming partial cataracts which unite before banks a few years ago, which presents a reaching the basin which receives them be-The deep excavations the continual large tract of land containing a superficies of action of the water has worn in the rock, 207 arpents was instantaneously moved 360 give a globular figure to the revolving bodies yards from the edge of the water and pre- of brilliant white foam; the spray spread by cipitated into the river, which it dammed up the wind, produces in the sunshine a splento a distance of 26 arpents, and by obstruct- did variety of prismatic colours, while the ing the waters, caused them to swell to an dark-hued foliage on either side, pressing extraordinary height: this singular event close on the margin of the river, forms a

striking contrast with the snowlike effulgence of the falling torrent; indeed, few 8 to 12 feet high, diversified on each side by

Chaudière for picturesque beauty.

St. Francis River, S. of the Chaudière, flows through a fine country, in which the valuable territories of the British American Land Company is situated. The St. Francis passes that portion of the St. Lawrence From its junction with the St. Lawrence, called Lake St. Peter, and has a water communication to the district town of Sher- 12 to 15 miles, after which the navigation is brooke, a distance of about 70 miles. The carried on by boats, cances, rafts, and craft tributaries of the St. Francis—the Salmon, of large dimensions. The breadth of the bed Eaton, Coaticook, Massawippi, Magog, &c. at its mouth is 250 yards, which it preserves -water a country of great beauty; hill and with a few exceptions (occasioned by some dale, river and lake, forest and meadow, small and beautiful islands), up to Chambly meet in succession the eye of the traveller. basin, which is a nearly circular expansion of The surrounding districts, called the eastern the river, about a mile and a half in diameter. townships, were considered by Lord Sydenham one of the finest parts of Canada There are two remarkable lakes in this neighbourhood, namely, Matapediac and Memphramagog. The former is about 16 miles long, and 3 broad in its greatest breadth; about 21 miles distant from the St. less as far as St. John's, where there is ship Lawrence river in the co of Rimouski, amidst navigation to the towns on Lake Champlain. the highlands that divide the waters running into the St. Lawrence, from those that run to the Bay of Chaleur, it is navigable lies between Vermont and New York; its exfor rafts of all kinds of timber, with which the banks of the noble river Matapediac are thickly covered. Memphramagog Lake, in the co. of Stanstead, stretching its southern extremity into the state of Vermont, is of a semi-circular shape, 30 miles long, and very narrow. It empties itself into the fine river St. Francis, by means of the river Magog, which runs through Lake Scaswaninepus. The Memphramagog Lake is said to be navigable for ships of 500 tons burthen

Richelieu River, also called Chambly, Sorel, St. Louis, and St. John, affords a quick and easy water communication from the United States territory (via Lake Champlain into the heart of Canada. Its principal source is in the United States, and estimating its length from the S. point of Lake George to the termination at Sorel, now William IV.) on the banks of the St. Lawrence, its course cannot be less than 160 miles—the estimated extent of tract watered being 30 miles, and the surface drained 4.800 square miles; only a portion of this lies within the province of British America, the distance from the boundary line to the cost and other islands) extends along the St. mouth of the river being about 70 miles

of the 160.

The banks of the river are generally from falls can be compared with those of the many farms and extensive settlements, in a high state of cultivation; on and near it are neat, populous, and flourishing villages. handsome churches, numerous mills of various kinds, good roads in all directions, and every characteristic of a prosperous country. decked vessels of 150 tons may ascend from embellished by several little islands, covered with fine verdure and natural wood, artistically grouped. From the basin of Chambly to the Isle du Portage the breadth is 500 yards—beyond this it spreads to double that distance, and continues to widen more or This lake has its name from the distinguished Frenchman who discovered it in 1609, and treme length from Whitehall at its southern extremity to its termination, 24 miles N. of the Canada line, is 128 miles; with a varying breadth of from 1 to 16 miles; its mean width being 5, and altogether covering a surface of about 600 square miles. The outlet of the lake is the Richelieu river above described. There are about 60 islands of different sizes in the lake, the principal of which are N. and S. Hero and Isle Lamotte. N. Hero, or Grand Island, is 24 miles long and from 2 to 4 wide. Lake Champlain has a depth sufficient for the largest vessels; half the rivers and streams which rise in Vermont fall into it, and it receives at Ticonderago the waters of Lake St. George from the S.S.W., which are said to be 100 feet higher than its

The other rivers being of considerably William Henry Town (so called after king less magnitude, do not require any separate

> The following detail will show the divisions of Eastern Canada, and afford some idea of the numerous rivers and lakes by which this fine country is irrigated.

> The district of Quebec (including Anti-Lawrence 826 miles, is in depth ınland 360, and contains an area of 127,949 square miles.

Montreal (including the adjacent islands) 310 inland, and has an area of 54,802 square Three Rivers (including St. Francis St. Lawrence, 320 inland, and has an area of 15,823 square miles. Gaspé peninsula the St. Lawrence, 200 inland, and has an is level, fertile, and highly cultivated. in square miles, 205,863.

N. of St. QUEBEC DISTRICT .- Rivers. Lawrence: Ste. Anne, Jacques Cartier, Batiscan, St. Charles, Montmorence, Gouffre, Mal Bay, Black River, Saguenay, Belsiamite, St. John, Ste. Anne, L., Portneuf. S. of St. Lawrence: Chaudière (part of), Etchemin, Du Sud, Du Loup, Greenriver, Rimouski, Trois Pistoles, Mitis, Tartigo, Matane, Madawaska, St Francis (part of), St. John (part of).—Lakes. N. of St. Lawrence: St. John, Commissioner's, Quaquagamack, Wayagamack, Bouchette, Kajoulwang, Ontaretri, St. Charles, Chawgis, Assuapmoussin, Shecoubish. S. of St. Lawrence: Temiscouata, Matapediac, Mitis, Abawsisquash, Long lake, Pitt, Trout, Wilham, St. Francis, McTavish, Macanamack

MONTREAL DISTRICT .- Rivers N. of St. Lawrence: Gatineau, Lièvres, Petite Nation, Rivière Blanche, Rivière Du Nord, Mascouche, Achigan, L'Assomption, Lachenave, ments on the St. Maurice. Berthier, Chaloupe, Du Chêne. S. of St. Lawrence: Richelieu, Sorel, Yamaska and branches, Pike, Montreal, L. Chateauguay and branches, Lacolle, Magog, Coaticook, Missiskoui.-Lakes. N. of St. Lawrence. White Fish, Sables, Killarney, Temiscaming, Lièvres, La Roque, Rocheblave, Pothier, Nımıcachinaque, Papineau, Maskinongé. S. of St. Lawrence. Memphramagog, Tomefobi, Missiskoui Bay, Scaswaninepus (part of), Yamaska Bay, St. Louis, Two Mountains. St. Francis, Chaudiere, Chats, Allumets.

THREE RIVERS DISTRICT .- N. of St. Lawrence: St. Maurice and branches, Batis- productive, and has a numerous population can, (part of), Champlain, Du Loup G. and scattered in farms and villages, especially along L. Maskinonge, Machiches. S. of St. Law- the St. Lawrence. The scenery is described rence: St. Francis and branches, Nicolet as extremely picturesque, being covered and do. Becancour, Gentilly, Yamaska (part with "fruitful fields, luxuriant meadows, of).-Lakes. N. of St. Lawrence: O'Can- and smiling villages variegated by towering anshing, Matawin, Goldfinch, Shasawataiata, peaks." La Prairie, opposite to Montreal, Montalagoose, Oskelanaio, Crossways, Per- 1s a handsome town, and in the high road chaudes, Blackbeaver, Bewildered. S. of of communication between Montreal and St. Lawrence: Nicolet, St. Francis, (part the United States. Chambly and St. of), Megantic, St. Paul, Outardes, Blacklake, John's are on the same route, and rapidly Connecticut, Weedon, Scaswaninepus (part rising in importance. The counties within of), St. Peter.

The rural districts N. of the St. Lawextends 110 miles along the St. Lawrence, rence, between Montreal and Quebec. are principally occupied by the French Canadian Seigniories; and from the Isle Jesus to Three and the islands) extends 52 miles along the Rivers, the banks of the St. Lawrence present an uninterrupted succession of flourishof 15,828 square miles. Gaspé peninsula ing settlements. The Isle Jesus, parallel to (including islands) extends 80 miles along that of Montreal, 21 miles long by 6 broad, area of 7,289 square miles. Total superficies Montreal district on the north side of the St. Lawrence, comprises the counties of Montreal, Berthier, Lachenaye, L'Assomption, Terrebonne, Two Mountains, Vaudreuil, and Ottawa, and contains a comparatively dense population. The Ottawa district, which extends more than 300 miles along the north bank of that great river, is very thinly peopled, as will be seen by the statistics of the chapter on Population

> The district of Three Rivers extends from the mouth of the River St. Anne to the upper part of Lake St. Peter, which is 25 miles long by from 5 to 10 broad. town of Three Rivers was founded in 1618, and stands at the mouth of the St. Maurice, where it is divided by islands into three There is a good wharf, where branches. ships of large burthen may lie close to the shore. There are now about 5,000 inhabstants in the town, which derives much advantage from the excellent iron establish-

The countries belonging to the Montreal district south of the St. Lawrence, north of the states of New York and Vermont, and west of the St. Francis, are those of Beauharnois, La Prairie, Acadie, Verchères, Chambly, Rouville, Richelieu, St. Hyancynthe, Shefford, Missisqui, and Stanstead This district, where it borders on the St. Lawrence, is nearly flat, but gently undulates to the southward, and forms detached hills called Mounts Rouville, Chambly, Johnson, and Boucherville, &c.

The soil of this rich plain is exceedingly the district of "Three Rivers," on the south side of the St. Lawrence, are Yamaska, Nicolet, Drummond, and Sherbrooke. The country rises to the eastward, and is well rrigated by the St. Francis and several fine rivers. The land along the St. Lawrence from 8 to 10 miles inland, was bestowed in grants, and formed into seigniories, while the fine undulating tracts in the rear, reaching to the frontiers of the United States, were neglected.

At the close of the last war the government began to form townships in this region, of which there are now about an hundred. Colonel Herriot laid out Drummond Ville with some military, discharged from the army on the establishment of peace; and private settlers were attracted from the adjacent United States territories by the fertility of the soil, and other advan-Subsequently the British American Land Company purchased from Government a block of land containing 596,000 acres, and other tracts from private individuals, making altogether 700,000 acres, at a cost of nearly Of this money £60,000 has £200.000. been returned to them to be expended in improvements; and they have formed a harbour at Port St. Francis on Lake St. Peter, improved the road to Sherbrooke, and rendered the country very eligible for settlers. as *improved* farms, with buildings complete, may now be purchased in any part of the eastern townships at from £150 to £300 for a lot of 300 acres.

Shefford, watered by the lower branches of the Yamaska river, is, in some places, hilly and rocky. Stanstead is diversified by hill and dale, and has, in its centre, the pleasing lake called Memphramagog Stanstead town on the east side of the lake, within two miles of the American frontier, is large and well built. A railroad is in course of formation from Montreal through Chambly, Richelieu, St. Hyacinthe, Shefford, Sherbrooke, and Stanstead counties, to the American state of New Hampshire, from whence it is projected to continue the line to the seaports of Boston, and Portland in the United States.

The district of St. Francis is divided into 29 townships; has a broken and varied surface; hills clothed with fine timber; and much valuable and well-watered land.

The Quebec district on the S. side of the St. vation, the remainder being in its primitive Lawrence contains the counties of Beauce, Bellechasse, Megantic, Lotbinière, Nicolet, for the most part falling into the great lakes, Kamouraska, and Rimouski. The aspect of or into large rivers, which again empty this district is hilly; the land stretching in themselves into that great artery of the

irregular ridges, intersected by extensive valleys; and from 15 to 20 miles inland, a more elevated tabular surface is formed with a gradual slope to the river St. John. land facing the St. Lawrence was granted by the French government in seigniories, but in the rear of these, townships have been laid out for English settlers who may obtain farms in fee-simple. Kamouraska is the fashionable watering-place of the Canadians, and the fine scenery, combined with sea air, render the place very attractive. proceeding further towards the sea the country is less populous; but the settlements of Kent and Strathearn, adjoining Lake Temisconata, formed by colonel Fraser, are rising in importance

Along Gaspé peninsula, the land adjoining the coast has been laid out, and double ranges are now forming inland. The country will soon be cultivated extensively, and will probably become very prosperous from its

valuable fisheries and mines.

The vast territory embraced in the division of Upper or Western Canada, as regards the inhabited parts, is in general, a level, champaign country; for, from the division line on Lake St. Francis to Sandwich, a distance of nearly 600 miles westerly, nothing like a mountain occurs, although the greater part of the country gently undulates in pleasing hills, fine slopes, and fertile vallies: but a ridge of rocky country runs in a north-east and south-west direction through the Newcastle and Midland districts, towards the Ottawa or Grand River. at the distance of from 50 to 100 miles from the north shore of Lake Ontario and the course of the River St. Lawrence. the N. of this ridge is a wide and rich valley of great extent, which intervenes between it and a rocky and mountainous country, of still higher elevation.

Farther to the north, beyond the French river which falls into Lake Huron, are lofty mountains, some of them of great, but un-

known height.

The country on the N. and W side of Lake Ontario, and of Lake Erie, which is still further west, continues flat as far as Lake Huron, with occasional elevations of easy ascent. Of this tract of country only a comparatively small portion is under cultivation, the remainder being in its primitive state of forests, lakes, and rivers; the latter for the most part falling into the great lakes, or into large rivers, which again empty themselves into that great artery of the

a clear idea of the physical aspect of the proonce to a description of its vast inland seas.

The lakes of West Canada are almost incalculable. The following table shews the dimension of a few of the best known:-

Names.	Length.	Breadth	Circum- ference	Aver depth	Elevat above the Sea	
	Miles	Miles.	Miles	Feet	Feet.	
Superior	360	140	1500	1000	627	
Huron	250	190	1000	860	594	
Michigan	260	55	800	780		
Erie	280	63	700	250	565	
Ontario	180	60	500	500	234	
Simcoe	40	30	120	125	700	
St Clair	35	30	100	20		
George	25		58		J	
Rice Lake .	24	2 to 5	58		600	

Lake Superior, called also Keetcheegahmi and Missisawgaiegon, the largest and most elevated of those singular seas, which, in Western Canada, seem to fill the place that great mountains occupy in other countries. and to affect the climate in a somewhat similar manner, is situate between the meridians of 92° 19' and 84° 18' W. long., and the parallels of 49° 1' and 46° 26' N. lat. It is in form, an irregular oblong basin, about 1,500 geographical miles in circumference, in length from E. to W. the imaginary line which, passing through its centre, divides the territory of Great Britain from that of the United States, is 360 miles, its extreme breadth (opposite Peak Island) is 140 geographical miles, with a depth, where it admits of measurement, of from 80 to 150 fathoms, but without soundings in its centre; the waters are always extremely cold, clear, and devoid of tides, or any other kind of periodical rise and fall. During heavy gales of wind, the waters of this and the other great lakes, between which a subterranean communication is supposed to exist, rise so high, that it was at first doubted whether the smaller-class steam-boats could live in them, and the ground swell, owing to the comparative shallowness, or little specific gravity of the fresh water, is so trying as to produce sea-sickness even in old sailors. [See Geology.]

country, the St. Lawrence. The settlements lands, which, stretching from the rocky are chiefly confined to the shores, and are mountains to Lake Superior in broad diluseldom far distant from the borders of the vial plains and undulations, divides the great lakes and rivers. In order to convey waters flowing into the Mexican Gulf from those which find their exit in Hudson's Bay; vince, it may be expedient to proceed at and proceeding thence in an easterly direction to the coast of Labrador, constitutes the north dividing range of the valley of St. Lawrence.

The surface of Lake Superior is 627 feet above-and the bottom of its basin (so far as it has been sounded) upwards of 500 feet below the level of the Atlantic ocean; it receives 220 tributary rivers and rivulets, but owing to the immense evaporation continually taking place from Lake Superior, the volume of water which it discharges through its only outlet (the Falls of St. Mary) into Lake Huron, is far less in quantity than that which it has itself received.

The extent of the American shore along Lake Superior from the mouth of the Ontonagon is 500 miles; that of the Canadian coast is estimated at 1200 miles. Some of the rivers on the S. coast are 153 miles long; the principal of these, namely, the Ontonagon, or Coppermine, Montreal, Mauvaise, Boisbrulé, and St. Louis, communicate with the Mississippi.

Numerous islands exist in various parts of the lake, some of which are of considerable size; Isle Royale is 45 miles long by 7 or 8 board; Caribou is about 6 miles in circumference, and the Islands of the Twelve Apostles are 23 in number, with perpendicular cliffs of sandstone on the N. and S.E., 60 feet in height. At Les Portailles and Grand Island there are perpendicular cliffs broken into the most beautiful and picturesque arches, (under some of which a boat can pass,) porticoes, columns, and caverns of large dimensions.

The shores of Lake Superior (whose direction is E. and W.) are in several places rocky, and considerably elevated, with occasional large tracts and bays of sand. Point Iroquois to the "Pictured Rocks," it is generally sandy, from thence to the foot of the Fond du Lac, rocky. The great promontory or peninsula of Keewanonan, which divides it into two equal sections, is very high at its central part, consisting of steep conical granite hills, rising 1,000 feet above the lake. The country around Lake Supemor, whether on the American or on the British territory, is but imperfectly known; This monarch of lakes is situated to the S. there is a great extent of hill and dale, and of, and near the continuous chain of high in some places ranges of what in West anada may be termed mountains, 1,500 leet above the level of the lake, and consequently 2,127 feet above the level of the ocean. The Porcupine hills, 200 feet high,

approach the lake on the S. shore.

At Gros-Cap (where Lake Superior is connected by the river St. Mary, with Lake Huron) the prospect is not only beautiful but magnificent; the spectator standing beneath the shattered crags 300 feet high, has before him an apparently immeasurable flood, which, if it burst its barriers, would overwhelm a continent: in front is a low island, on the S. Point Iroquois declines from a high tabular hill, and on the N.W. a picturesque and elevated country is dimly seen in the distance.

The line of rocky hills which constitutes the N. shore of Lake Superior consists of rocks and crags, piled to the height of 150 or 200 feet at the N. end, and from about 400 to 450 feet at the S. end, where they dip into the lake from an elevation of 300 feet in detached fragments, lowering successively on each other. Along the E shore of the lake from Gros-Cap to the river Michipicoton (125 miles) are several promontories, bays, and rivers; among these are Batchewine and Huggewong bays, off the mouth of which latter is the island termed Montreal or Hogguart The W. end of Lake Superior, termed Fond du Lac, is a slowly contracting cul de sac commencing in long 91°, at the promontory opposite the isles of the Twelve Apostles, 80 miles in length with a breadth of 8 to 10 miles at the end

There are 139 rivers and creeks on the S shore, but fewer in the eastern than in the western division. One of these, the St Lewis, is 150 yards broad at its mouth, ex panding immediately into a sheet of wate 5 or 6 miles wide, and extending inland 23 miles, with a varying breadth. Some of the mountains near the lake rise to the heigh of 1,400 feet. Thunder mountain, for in stance, which is of considerable breadth several miles long, the western half being almost tabular, with the castern irregular and hummocky. In general the hills have flat pine-clad summits. The pictured rock (so called from their appearance), situati on the S. side of the lake towards the E end, form a perpendicular wall 300 fee high, extending about 12 miles, with nume rous projections and indentations in every variety of form, and vast caverns, in which the entering waves make a jarring and tre mendous sound. Mr. Schoolcraft describes

hem as "surprising groups of overhanging recipices, towering walls, caverns, waterfalls, and prostrate ruins, which are mingled in he most wonderful disorder, and burst upon he view in ever-varying and pleasing succession." Among the more remarkable bjects are the Cascade La Portaille and the Doric Arch; the cascade consists of a considerable stream, precipitated from a height of 70 feet by a single leap into the lake, and projected to such a distance that a boat may pass beneath the fall and the rock untouched by the waters.

The Doric Arch has a most singular effect, having all the appearance of a work of art; t consists of an isolated mass of sandstone, with four pillars supporting an immense entablature of stone covered with soil, from which springs a beautiful grove of pine and spruce trees of considerable height.

The lake is subject to storms, sudden transitions of temperature, and dense fogs and mists. The mean heat for June is 66°, and for July 64°, and of the lake 61°; the winter is long and severe. The principal forest trees are white and yellow pine, oak, hemlock, spruce, birch, poplar, with a mixture of elm, maple, and ash, upon the banks of some of the rivers.

The waters of Lake Superior are very transparent, and their lower strata appear never to gain a warm temperature, for the water in a bottle sunk to the depth of 100 feet in July, and there filled, is, when brought to the surface, cold as ice. They abound nevertheless with trout (weighing from 12 to 50 pounds), sturgeon, and white fish as large in proportion, together with pike, pickerel, carp, bass, herring, and numerous other species.

The St Mary's river, or strait, which connects Lake Superior with Lake Huron, is

about 60 miles long.

The falls or rapids of St. Mary, by which travellers usually enter Lake Superior, are in length about three quarters of a mile by half a mile in breadth, the river being here narrowed by a broad tongue of land, protruding from the N. shore, and affording a site for the store-houses of the Hudson's Bay Company. The rapids are 15 miles from Lake Superior in 46° 31' N. lat., and have a descent of 22 feet 10 inches in the narrow limit of 900 yards. The broken foaming billows are hurried with velocity over a slope of ledges and huge boulder stones, through a thickly wooded country, whose low level has permitted the formation on each side of

wider on the right bank. The height of the 10 and 15 broad. latter varies from 10 to 50 feet, and is comis more distant on the Canadian than on the American shore. The St. Mary river extends above the rapids about 15 miles, bed is from one mile to one and a half wide. The current ceases to affect boats 2 miles above the rapids. Immediately below the rapids, the St. Mary fall widens to upwards of a mile.

Lake Huron, the third from the Atlantic ocean of the great chain of lakes which of the valley of the St. Lawrence, is of an and an area of 14,000 square miles. The islands into two parts; the eastern, called Georgian Bay, is 120 miles long by 20 broad, and has an area of 6,000 square miles; and the western, called the "North Channel," has an area of 1,700 square The total superficies of the lake amounts to about 21,700 square miles. Lake Huron is nearly 594 feet above the ocean level, and has a depth of 860 feet.

same body of water, separated only by the does not come within my notice. I may, however, observe, that it is 260 miles long, by 55 broad, and 800 miles in circumference, covering an area of 16,200 square miles, or 10,368,000 acres, and navigable for ships of the largest burthen. \mathbf{Green} Bay extends from the N. end of the lake 90 miles in a S.W. direction, with a width of from 15 to 20 miles. Across its entrance is a chain of islands, called the Grand Traverse, the channels between which admit vessels of 200 tons burthen, and sloops of equal burthen can ascend to the head of this extensive bay. From the bottom of Green Bay, boats can ascend the Ontagamis or Fox River, to within two miles of the Oniscousin, to the head of which a portage visible. has been made, and a descent is practicable from thence to the Mississippi. taries of Michigan are extremely numerous

a number of islets, divided by channels, are the Manitoulins, or Sacred Isles, many which are narrow on the left, but much of which are from 25 to 30 miles long by

Drummond Island (one of the Manitouposed of light alluvial earth; this acclivity lins) is 24 miles long by from 2 to 12 broad, and at the west end approaches the main and of the United States, where it forms he strait of the True Detour, the principal through a low well-wooded country, and its commercial route to Lake Superior; the strait is scarcely a mile wide, and bounded by two promontories; the coast of the United States is here flat and woody, with morasses,-that of the island is irregular, and covered with large masses of rock. he higher and middle parts of Drummond Isle, the elevation is from 200 to 250 feet. occupy the four plateaux of the upper part inclining on either side of the water, often presenting low white precipices, in broken irregular shape. It has a circumference at lines, on the summit or sides of the slopes; the south part exceeding 720 lineal miles, the south coast of the island is broken into small but deep bays, with shoal points; northern part is divided by the Manitoulin those on the west contain many islets,—one of which, according to Dr. Bigsby, has an mmense deposit of iron pyrites. the north coast is distinguished by the magnitude of its bays, and the groups of islands which cover the contiguous waters. This coast is terminated on the east, in the strait called False Detour, by a calcareous precipice of considerable beauty, 500 yards long, and 250 feet high, which forms at the top a Lake Michigan, is in fact, a part of the terrace of rock, and below is separated from the lake by a narrow and high beach.

strait of Michilmakinac, but as it is entirely possessed by the United States, it mond Island from the little Manitoulin, or Cockburn Island, is from 8 to 10 miles long, and from 3 to 6 miles wide, with a mid depth of seldom less than 40 fathoms; the opening from the south is spacious and bold, it has three fine capes on the west, and one on the east. At the north outlet, the shores are very much rounded, with precipices to the west, and woody steeps to the east: in front, is that part of Lake Huron termed the North Channel, studded with a few islets in pairs, and bounded in the distance by the mis-shapen hills of the northern main; on the north-west the heights of St Joseph form a blue waving line, and on the north-east, the looming of the isles at the foot of La Cloche is just

Little Manitoulin has a diameter of seven The tribu- or eight miles, and an aspect somewhat similar to, though more elevated than that some of them full flowing rivers, but, so far of Drummond Isle: the shores have succesas we know, none are of any great length sive banks or stairs formed by the debris of Along the north shores of Lake Huron the lake, with here and there terraces of limestone, in situ;—inland, the surface has the island therefore possibly have a commua rugged ascent, with protruding strata in nication. primitive masses, intersected by short ledges, which often crown the greatest heights, and Pots are six miles S.S.E. of the fourth form a table land of small extent, but well Manitoulin, one of them has an elevation of wooded.

is the third Detour, eight miles long by four narrow below, but increasing in breadth as broad, which has high shores, and is clear they ascend—the whole standing on a floor

at both outlets.

is 80 miles long by 20 broad, with an area Head is a singular looking head-land, in of 1,600 square miles, and deeply indented Michipocoton, or Georgian Bay, consisting by bays, which nearly divide the island; its of indented limestone bluffs, rising to the general features are similar to those of the height of 300 feet, and skirted by numerous two preceding named islands, only it is reefs and islets, and presenting on the S.W. higher, abounds more in precipices, and is a continued range of calcareous precipices. At the W., its fearugged throughout. tures are more majestic than those of any Lake Nipissing with Lake Huron) westwards other part of Lake Huron. At the north to the islands of La Cloche, about 50 miles end of the third Detour, its shores are lined distant, the lake near the shore is studded with ranges of shingle, backed by a wooded with innumerable islands; some near the ascent: towards the centre of this strait, main, barren, and chiefly composed of gneiss, ledges and low precipices begin to appear are like heaps of ruins, others farther out in along the beach, increasing to the height of the lake, loftier, and girded with a belt of 250 feet, crowned with cedars and pines. flat ground, consist of shelly limestone, and these ledges either rise perpendicularly, or are richly wooded. Further west the islands or are formed by enormous piles of displaced of La Cloche, which derive their name from masses, from 7 to 10 yards in diameter, the belief that some of the islands are comsloping at a high angle, sometimes advancing posed of dark rocks, which, when struck, into the waters of the lake, and affording a sound like a bell, form a charming contrast hazardous passage over their slippery sides, to the bleak hills on the main, which rise under arches and through winding passages. 1000 feet above the level of the lake,—the Near the south-east angle of the Detour, a islands, with their dark green forests diversibluff precipice, 40 feet high, protrudes into fied by grassy vales and clumps of trees, the water, skirted by very large cubic masses appear like an English park. Groups of arise clumps of beautiful trees, and knolls Missalaga River, 60 miles distant; some near of flowering shrubs, shadowed in the back the main are low and barren; others, eleforests.

irrigated with streams and lakes. One lake, captain Bayfield, in 1820, the coast is for miles. The margin of the lake is fringed the Spanish River the scenery is improved stream flows into it, while three large brooks Their highest elevation is 482 feet above the run from it. Where the water is derived lake. To the E. of the Manitoulin islands, from, Mr. Murray (in his recent geological the La Cloche hills recede to the northward. island is chiefly composed of limestone; of vegetation. which formation not unfrequently has sub- Mr. Alexander Murray, assistant provinterranean passages; the different lakes in cial geologist, in his survey of Lake Huron

The insulated rocks called the Flower 47 feet, and consists of large tabular masses Between the Little and Grand Manitoulin placed horizontally one upon the other, of rock projecting into the lake from the The Grand Manitoulin, or "Sacred" Isle, lofty Island which bears their name. Cabot's

From the French River (which connects From these natural precipices islands occupy the lake from La Cloche to ground by the dense gloom of impenetrable vated and woody; beyond the Missalaga is a low rocky shore. To the westward of The interior of the island appears to be well Spanish River, which was discovered by 10 miles long, is in the form of an hour- the most part low, rugged, and has several glass, 7 miles wide at the ends, and only 1 safe and commodious harbours among its in the centre, with an area of 55 square numerous islands and inlets. To the E. of with trees to the water's edge, except on the by the gradual approach of a high range of S.W. side, where the ledges rise 20 to 40 picturesque hills, which extend to the shores feet. This lake is 155 feet above the level of the lake, about four miles W. of the Hudof the waters of Lake Huron. Only one son's Bay Company's post at La Cloche. survey) was unable to discover. Manitoulin and the coast is generally low and destitute

thickly clad with trees of a stunted growth. grassy marshes, especially on the S.E. side. But after passing these marginal forests of different character, especially in the valleys ninsula called False Presquisle. and deep soil, producing maple, oak, elm, groves of red and white pine of large size. Various places of this description have been as at Spanish river, notwithstanding the quantity and quality, to those usually seen under the more enlightened system of tillage Spanish rivers, have the most favourable districts for cultivation.

The Thessalon and Mississagui rise far in covered with timber of various kinds the interior, where the country is repreeach other. The Serpent and Spanish rivers rise to the northward, flow westward for the lower part of their course, and disembogue other.

The north-west arm of Lake Huron. which communicates with Lake Superior, is of an oblong shape, the two longer sides at their western extremities converging towards the north; it contains about 400 square miles, and is crowded with islands of all sizes; the principal, St Joseph, is 65 miles in circumference, through it runs an undulating ridge, called the Highlands of St. Joseph, 500 feet high the N.W. point of St. Joseph is in long. 84°, and lat. 46° 18'. Pelletan's Channel, which divides St. Joseph from the main, is remarkable for its fine scenery. The island (St. Joseph) belongs to the English, and its neighbour, Drummond Isle, to the United States, and on each are small military detachments belonging to their respective governments. Portlock Harbour, a British military position, 1100 miles from Quebec, is an extensive haven, interspersed with rocky islets, and girt by woody hills starting forth in a series of verdant or rocky capes. Muddy Lake, bounding the S.W. side of St. Joseph's

(14th January, 1848), describes the north Isle, is a noble sheet of water 17 miles shore of the lake as poor, rocky, in some long, and varying from 2 to 7 in breadth: parts destitute of vegetation; in others its shores are deep embayments, ending in

Michilimakinac strait, the south-west arm fir, spruce, pine, beech, and poplar, the of Lake Huron, leading into Lake Michigan. interior in many places presents a very 18 11 miles wide, and by its side is the pe-The view of the different streams, where there are into Lake Michigan, from Michilimakinac frequently to be seen extensive valleys of rich Isle, which hes in the strait of that name. midway from either main, is remarkably birch, and basswood, hesides occasional pleasing; the land, which at first closes on the water, suddenly expands into a spacious sound, with curving shores and woody capes, cleared and cultivated by the Indians, and with clusters of islands in the distance. The pretty hamlet of St. Ignace, the high white rude state of aboriginal culture, the crops of cliffs of Michilimakinac contrasting with the maize and potatoes are nearly equal, both in dark foliage around, and the blue light streaming through the sound from the vast lake beyond, offer a rich treat to the lovers in West Canada. Mr Murray remarks, that of natural scenery. There is nothing parthe Thessalon, Mississagui, Serpent, and ticularly worthy of remark down the southeast shore, as far as Thunder Bay and Middle Islands, which are flat, calcareous, and well pecting the Gulf of Saguina the English sented to be spotted with numerous small know little from Pont aux Barques to the lakes, run in a south-east direction, and River St. Clair, is a straight line of beach, fall into Lake Huron, within 25 miles of intermixed here and there with stiff clay, and, about midway, a large block of white limestone rises from the waters of the lake

On the elevated south-east shore of the into Lake Huron, within 15 miles of each lake, in the London district, between 43° 10' and 43° 53' of north latitude, about 40 miles at its nearest point from the head of Lake Ontario, and 30 miles from the north border of Lake Erie, is situate the fine tract termed the Huron territory, which belongs to the It is of a triangular Canada company. shape, the base is 60 miles in length, it rests on Lake Huron, and comprises an area of nearly 1,100,000 acres Near to the confluence of the river Maitland with the lake an excellent harbour is formed, capable of sheltering vessels of 200 tons burthen, where the Canada Company have laid out the neat and flourishing town of Goderich;-the country around is fast improving under their judicious management The surface of the Huron territory is generally level, and frequently presents rich natural meadows. The rivers Maitland, Aux Sables, a large branch of the Thames, and other rivers and streams, water this fine district.

Georgian Bay, a vast arm of Lake Huron on the north-east side, is studded with fine harbours.

The principal British naval station in

Lake Huron is Penetanguishine (lat 44° 57', long. 79° 35'), in the south-east bight of Georgian Bay, within Gloucester harbour; it is sheltered by hills of sand and rolled blocks.

considered the centre of the great chain of waters round it, with all of which it has a one of which is called Flint River. direct communication. It communicates Saguina is 120 miles from Detroit, through with Lake Superior by St. Mary's River; the woods, and about 220 by water. with Michigan (and through it with the Illinois river) by the Strait of Michilima- coe and Huron, is about 30 miles in length; kınac; with Lake Erie by the river and and at its mouth, near Penetanguishine, it Lake of St. Clair; and with Lake Ontario is one mile and a quarter in breadth: it has by the Severn river, - Lake Simcoe, a two falls, and a descent of 80 feet from chain of comparatively small lakes, and the Lake Simcoe. Trent river. It has also two known communications with the Ottawa—one through the only river of discharge for Lakes Su-Lake Simcoe, and a chain of lakes to the perior, Michigan, and Huron, which cover source of the Madawasca, which falls into a surface of 381 million of acres, and are the Lake des Chats-the other, up French fed by numerous large rivers. I differ from river, through Lake Nipissing, and down a this able observer, and am of opinion that rapid river to the Ottawa, near Mataouin.

land, and Saguina. The two former, situate trance into Lake St. Clair, through a luxin the north-east corner of the lake, are uriant alluvial country, in a straight course, Huron with Lake Nipissing, is 75 miles in miles an hour. continuous lines, but are excavated with nevertheless, navigable for schooners. deep and narrow bays, obscured by high walls, masses of rock, and groves of dwarf intermediate link between Huron lake and extends more than one league, and is occu- with the latter by the Detroit River; it is pied by islands of every imaginable shape of an irregular oval shape, about 30 miles in exceed in singularity and grandeur those for steam-boats and schooners. The shores which are here afforded, by groups of long are low and level, and a group of flat island and lofty islets extending in giant rays formed by the constant alluvial accumulafrom a centre in some dark bay, -the clear tions carried from Lake Huron by the St. water reflecting their rugged outlines and Clair River, contracts its surface to the wild foliage, amid the solemn stillness per- northward. vading these solitudes.

Two cataracts occur in French River, by one, it leaves Lake Nipissing; the other called the Récollet, is 20 miles below, where the black crags in the midst of the foaming waters, skirted by pine trees, impart strange beauty to the scene.

There are also several rapids; near one the Busson, thirteen wooden crosses com memorate an equal number of fatal acci dents which occurred in crossing the foam

ng torrent; the average velocity of which, along the whole course of the river, is about two miles per hour.

The Saguina River flows through a fine and level country, and has a breadth of 180 The lake we are now treating of, may be yards for 24 miles, when it divides into three small and very circuitous branches,

The Severn River, connecting Lakes Sim-

The St. Clair, according to Dr. Bigsby, is the Missouri and Mississippi receive some The principal rivers emptying themselves of the waters of Superior and Michigan. into Lake Huron are, the Thessalon, Mis- It is 300 yards broad at its commencement, sassagua, French, Severn, St. Clair, Mait- and flows for 26 miles, previous to its ensmall. French River, which connects Lake with a smooth and equable current of 2 At its head, there is a length, and resembles a multitude of rivers rapid, which flows for three quarters of a rather than a single stream, flowing with mile, at the rate of 5 miles per hour; and frequent mosculations, among lengthened it enters Lake St. Clair by a multitude ridges of rock: its shores seldom present of shallow changeable mouths, which are,

Lake St. Clair is scarcely more than an Its breadth varies; sometimes it the noble basin of Erie, being connected Dr. Bigsby says, few American prospects diameter, with a depth of water sufficient This lake receives two large rivers; 1st, the Thames River (formerly Rivière à la Tranche,) which rises north of the township of Blandford, has a serpentine course of 150 miles, and discharges itself into Lake St. Clair. It is navigable for large vessels to Chatham (15 miles from 1ts embouchure), and for boats nearly to its source; the bar at its entrance is, however some obstacle to its free navigation. The Thames winds through a level and highly fertile country, the banks presenting many

fine plains and natural meadows. The soil is principally a sandy earth, intermixed with large quantities of loam, and sometimes marl, under which is a substratum of clay; and the river flats are exceedingly rich, from the alluvial deposits left by the overflowing of the banks. The oak, maple, pine, beech, superior quality.

London is situate on the banks of the main branch of the Thames, about 90 miles from its mouth, and in a tolerably central position with regard to the surrounding lakes. Chatham, as already observed, is 15

miles from its mouth.

The Big Bear River, or "Creek," rises near the limits of the Huron tract, and after running a course of about 100 miles generally parallel to the Thames (in one place approaching it within 5 miles), falls into Lake St Clair at the mouth of one of its north-east channels

The Detroit River, or rather Strait, is broad, deep, and 29 miles long; it connects Lake St Clair with Lake Erie,-flowing, after a westerly bend, nearly due S. from the former; the greater part of its course is intersected by long narrow islands, of which the largest (Gros Isle, 8 miles long,) is within the American boundary; and the next in size (Turkey Island, 5 miles long,) is within the British territory. Isle au Bois Blanc, 11 mile long, belonging to Upper or Western Canada, is of great importance from its situation, as it divides the channel between Gros Isle and the E. bank of the river (leaving the deepest channel on the E), and commands the entrance of the Detroit, which is navigable for vessels of the larger size employed upon the lakes; it moreover affords, at the British settlement of Amherstburgh, an excellent harbour. Sandwich, another delightful British town, is situate 14 miles from Amherstburgh. The country around is extremely picturesque; the banks high and richly cultivated, the eye everywhere resting on fertile fields, well stocked gardens. neat farm-houses and orchards, and extensive barns. The most important American town, on the opposite bank, is Detroit, which is a strong military station. During winter, the river is completely frozen over.

water called-

Huron or Superior (which he generally the roots of which the soil has been swept

north and south), runs nearly east and west, between 41° 20′, and 42° 50′, north latitude, 78° 35′, and 83° 10′, west longitude, being 280 miles long, and 631 miles broad at its centre, 700 miles in circumference, with an area of about 12,000 square miles treme depth varies from 40 to 45 fathoms, and walnut, growing in the vicinity, are of with a rocky bottom, unlike Lake Superior and Huron, which have a stiff clavev bottom mixed with shells; its average depth is from 15 to 18 fathoms; hence when the wind blows strong, the lake becomes exceedingly rough and boisterous, and a very high and dangerous surf breaks upon its shores, which often resemble the sea beach, being strewed with dead fish and shells, and frequented by various species of aquatic birds.

The surface of Erie is 334 feet above that of Lake Ontario, with which it is connected by the Welland canal, and 565 feet above the tide water at Albany, with which it is

connected by the great Erie canal.

The southern shore of the lake (which is exclusively within the territory of the United States, as the north is within that of Great Britain), is generally low, from the American town of Buffalo at its eastern extremity. to Detroit at its western, except near the portage of Chataughue, where, for a short distance, it is rocky and bold, and between Cleveland and the Reneshowa river, where the cliffs rise 20 yards perpendicularly above the water, and continue of the same elevation to the River Huron. Erie, an American town of some extent, with a strong battery, dock-yard, &c., hes to the S.E. of the lake. About 20 miles from its mouth, is a tract called the Sugar-loaf country, from its numerous conical hills, which average from 20 to 30 feet in height, are composed of sand and clay, and extend several miles. The beach at this part of the lake is covered with huge black rocks, against which the waves beat with incessant roar, and during spring and autumn thick mists often obscure the sky for days together.

To return to British territory, the north shore of Lake Erie is bolder and more elevated than the opposite coast, and is of an irregular form, by reason of several The banks of the lake sometimes rise to the height of 100 perpendicular feet, We now arrive at that splendid sheet of and consist of clay and sand, broken and excavated in a thousand different ways by Lake Erie, which receives the Detroit the action of the waves; in some places river, about 30 miles from its north-west ex- large bodies of clay project 20 or 30 feet tremity. This magnificent lake, unlike beyond the main bank, and lofty trees, from away, appear supported by a few fibres. the most extensive channels of inland navi-During tempests the waters suddenly rise, gation to be found in the world; enabling and beat with great violence against these vessels from the lake to traverse the whole sand cliffs, covering the beach, and over-interior of the country; indeed, the map of whelming boats, &c. The first cape is Point the entire globe does not present another Pelé, or South Foreland, on the north-west sheet of water so strikingly peculiar as Lake shore (near Lake St. Clair), the southern- Erie, commanding, as it does, the navigable most point of Canada, and indeed of the Bri- waters of North America. That justly celetish dominions in North America. The next brated American work, the Eric canal, Long Point, or the North Foreland (now waters a thickly settled country, and falls into Lake Erie, after a course of 100 miles, where the Welland canal (see canals) which joins Erie and Ontario commences. The northern, or British shore, along the counties of Middlesex, is thickly settled.

Compared with the other great lakes, Erie, as before observed, is shallow, and is rendered rather dangerous by the numerous rocks which, for many miles together, project from the north shore, and the little

shelter afforded from storms.

A constant current sets down Lake Ene when N.W. and S.W. winds prevail The principal harbours on the south (American) shore, are Buffalo and Dunkirk (New York), Erie (Pensylvania); Sandusky (Ohio); besides the harbour at Put-in-Bay Island.

The promontories on the north (British) side, form several good harbours and an- in different directions, and connecting almost chorage during the heavy gales which blow every lake and river, no matter how distant. on this lake. Some years ago the violence of a tempest made a breach through Long Point, (North Foreland) near the mainland, converted the peninsula into an island, and 150 miles long, 1,000 feet wide, and naviactually formed a canal almost at the very spot where it had been proposed to cut one, at an estimated expense of £12,000, leaving nothing else necessary to secure a safe been proposed to make the St. Lawrence a channel for vessels, and a good harbour on both sides, than the construction of a pier on the west side, to prevent its being choked from Quebec into Erie, through Lake Onwith sand.

of Lake Erie, especially towards Niagara, are among the most populous, and best settled of any districts in either country; a Mexico, presents itself by the way of Lakes circumstance which accounts for the large Huron and Michigan. No country offers number of vessels and steam-boats which greater facilities for inland navigation; and find profitable employment on the lake. as on the Grison Alps, a person may drink, Lake Erie may be regarded as a central without changing place, of a stream which reservoir, from which open in all directions flows into the Mediterranean, the Rhine,

prominence is Point aux Pins (Landguard) commences at the city of Albany, terminates whence there is a short westerly route to at Buffalo, in the county of Erie, and con-Chatham, on the Thames. Further east is nects the waters of the Hudson river with those of Lake Erie. It is 363 miles in an island), stretching eastward into the length, has 83 locks, (each 90 feet long in lake for about 20 miles, which forms a bay the clear, and 15 wide) of 689 feet rise and on its north-east shore. The fine river Ouse fall; having 18 aqueducts, the longest (at Rochester) 804 feet across the Gennesee river; the canal is 40 feet wide at the surface, 28 at the bottom, and 4 in depth. It was commenced in 1817, and finished in 1825.Together with the Champlain canal (which extends 64 miles, with 188 feet of lockage country, connecting the Erie canal waters with those of Lake Champlain), its cost was upwards of 11,000,000 dollars, and the tolls thereon produced, some years ago, an annual income of upwards of one million dollars, which has, doubtless, since greatly increased. The Oswego canal, commencing at Syracuse in Onondaga, and terminating at Oswego, connects the Erie canal with the waters of Lake Ontario. It is 38 miles long, has 123 feet lockages, was completed in 1828, and cost 565,437 Spanish dollars. There are several other canals all branching

From the N., the vessels of Ontario visit Erie, through the Welland canal and river. This river, following its windings, is about gable for 30 miles. On one of its branches called the Speed, 100 miles from its mouth, hes the thriving town of Guelph. It has ship channel from Lake Ontario to Montreal, so that vessels from England may pass The Ohio and Pennsylvania canals Both the American and Canadian shores will open a communication, through the Ohio river, to the Mississippi, and another channel between Lake Erie and the Gulf of the waters of the St. Lawrence, the Mississippi, and the Red River of Hudson's Bay, and the Colombia River, which are embosomed in the ocean at the extreme east, west, north, and south shores of the North American continent. Lake Erie is 560 feet above the tide waters of the Hudson, St. rior 53, the last-mentioned being 642 feet above the ocean level. The sources of the Mississippi, which runs 3,420 miles, are 1,330 feet above the level of the sea.

The Niagara River, which connects Erie and Ontario Lakes, commences at the NE. extremity of the former, and is the outlet not only of the waters of Erre, but also of the vast basins of Lakes Huron, Michigan, Superior, and their thousand tributaries The river is 33½ miles long in its bends (28) direct), and traverses a country unrivalled in richness and fertility. When first assuming the character of a river at Fort Erie, it is one mile wide, but soon contracts its bed, at Black Rock, to half a mile, and becomes rapid; then again expanding to its original dimensions, it flows on more gently, its general direction being from S. to N. From the ferry at Black Rock, where the current is 7 miles an hour, may be seen in perfection the mighty mass of waters rushing from the inland seas to join the parent ocean. Beyond Black Rock the river widens to enclose Grand Isle, 12 miles long, and 2 to 7 miles broad, with Square Isle at its head, and Navy Island at its foot (the only one in the States, by the decision of the commissioners, under the 6th article of the treaty of Ghent). bay, being more than 2 miles in breadth. and then narrowing down the rapids to the far-famed Falls of Niagara, which are 20 miles from Lake Erie;—the whole river is navigable, except below Chippewa, where the indraught of the cataract begins to be felt.

has been so often and so eloquently described, as scarcely to need more than a nected with it.

and German Ocean, so it is not impro- having been latterly due W, and forms what bable that a point of junction may exist of is termed the "Horseshoe Fall;" - the bend increases the violence of the rapid. On the New York side of the river, a small islet, termed Goat Island, separates a portion of the mighty torrent, and beyond it the cataracts on the British-American side may be said to commence [See map]

Of these the Horseshoe cataract is the Clair 10 feet higher, Huron 19, and Supe- largest; the curvatures of the fall have been geometrically computed at 700 yards, and its altitude, taken with a plomb line from the summit of the Table Rock, 149 feet; the American fall, narrowed by Goat Island, does not exceed 375 yards in curvilinear length (the whole irregular semicircle measures nearly three-quarters of a mile); its perpendicular height being 162 feet, or 13 feet higher than the top of the Great Fall, adding 57 feet for the fall, the rapids thus give a total of 219 feet, which is less than that of other cataracts. The following estimate by an American writer, showing the height of various falls in different parts of the globe, may enable the general reader to form a better estimate of the comparative importance of those in our territory —The Montmorency river, 9 miles below Quebec, 50 feet in breadth, fall of 250 feet, Chaudière, near the Montmorency, 100 feet, Mississippi, above its junction with the Ohio, 700 feet wide, fall 40 feet, Missourie, 500 miles from its sources, descent in 18 miles of 360 feet-the river is 1000 feet broad, one cataract is 87 feet broad, another 47, and another 26; Passaic, N. Jersey, stream 150 feet wide, falls into a chasm only 12 feet Niagara river not ceded to the United broad, 70 feet; Mohawk, at Cahoes, near its junction with the Hudson, 60 feet, Tuccoa, stream 20 feet wide, 187 feet; the Ache, Below Navy Island the river resembles a in Bavaria, fall in 5 steps, 200 feet; Tequendama, South America, the river Bogota, rises in the mountains 9000 feet above the level of the sea, and is precipitated through various gorges, chasms, and precipices, until it plunges into an immense chasm, 600 feet, Nile, at Syene, 40 feet; Gothea, in Sweden, fall at Trolhatta, 100 Niagara Falls.—This celebrated cataract feet; Lattin, in Swedish Lapland, half a mile wide, fall 400 feet; Maamelven, in Norway, as related by Mr. Esmark, fall in brief statement of the leading facts con- three places; Schaffhaussen, 400 feet wide, fall 70 feet; Orco, from Rosa, in Italy, de-The river Niagara, previous to arriving at scends in one continued cascade 1,200 feet: the ledge of limestone rocks (see geological Staubbach, in Switzerland, a small stream, section), over which it is precipitated with fall 1,400 feet; Terni, 45 miles N. of Rome, tremendous velocity, takes a sudden turn or the river Velino fall, over marble rocks, 300 bend to the N.E., its previous course feet, at Tivoli, 18 miles N.E. of Rome, the

Anio, a branch of the Tiber, fall 100 feet. The magnificence of the falls of Niagara consists in the immense volume of water precipitated over them, which has been computed at 2,400 millions of tons per day=100 millions per hour! A calculation made at Queenston, below the falls, is as follows:—the river is here half a mile broad; it averages 25 feet deep; current 3 miles an hour; m 1 hour it will discharge a column of water 3 miles long, half a mile wide, and 25 feet deep, containing 1,111,440,000 cubic feet, being 18,524,000 cubic feet, or 113,510,000 gallons of water each minute.

Goat island which divides, and perhaps adds to the sublimity of the falls, is 330 yards wide, and covered with vegetation; the eastern or American bank of the river. and the islands thereon, are low and also covered with vegetation, which, with its soft beauty, is in strong contrast to the awful scene beneath; the W., or British, bank is more bold and lofty, consisting of a horizontal ridge of rocky table-land along the margin of the rapids, and gradually increasing in elevation from 10 to 100 feet; at the foot of this ridge, on a level with the summit of the Horseshoe Fall, is the Table Rock, famous as the spot where a close view of the cataract may be obtained, indeed it forms a section of the ledge over which part of the torrent is precipitated; its flat surface jutting out horizontally about 50 feet, and overhanging the terrific gulf.

At the foot of the cataract it is possible, though hazardous, to penetrate 30 yards behind the gigantic concave sheet of the headlong flood, where a cavern is formed of about 150 feet in height, 50 in breadth, and 300 in length, well adapted for the habitation of its present tenants—the eel and the water The perilous path lies along the narrow margin of whirling eddies, beneath impending rocks, and amidst the jarring elements; great self-possession is therefore necessary in making the attempt, for one false step, or the least giddiness, migh plunge the adventurer into the horrible vor tex; a danger the more imminent because the path leads over sharp, broken, and ex cessively slippery rocks, on which it is extremely difficult to retain a footing, owing to the perpetual mossy moisture they imbibe from the oozing crevices of the superincum bent cliffs. This dangerous chasm is con sidered the best place for estimating the height of Niagara—that vast body of wate

which four great lakes, the least of which i

700 miles in compass, and which altogeher comprise an area of 100,000 square niles pour forth to the ocean-and the verwhelming fury with which the mighty mass foams and boils when rushing from he precipice. Here also may best be witnessed the prismatic colours in all their changing beauty, as they form with the clouds of rising spray—while the snow-white billows rolled out by the meeting waters, and the awful roar sent up from the deep abyss, with the apparently trembling and quivering motion, imparted even to the massive rocks, produce an effect on the mind f the beholder, of which it is impossible to convey an adequate idea.

But from the Table Rock above, the Falls appear less terrific, but even more beautiful. The spectator may approach so near that, if he possess nerve enough, he may, by lying prostrate on the rock, and stretching forth his arm, move his hand in the dread torrent; but it is a fearful experiment, owing to the bewildering noise of the cataract. may be distinguished the first ripple by which the increasing rapidity of the Niagara is marked, the eye may follow it downwards in its growing impetuosity, where its waves roll in crested curls; or watch them where they no longer roll but rush with a loud roar of wild confusion, or uniting in a sheet of transparent emerald green, plunge into the gulf, and rising again in infinitely divided spray, float gossamer-like in mid air.

Colonel Bouchette observes that, according to the altitude of the sun, and the situation of the spectator, a distinct and bright Iris is seen amidst the revolving columns of mist that soar from the foaming chasm, and shroud the broad front of the gigantic flood; both arches of the bow are seldom entirely elicited, but the interior segment is perfect, and its prismatic hues are extremely glowing and vivid, the fragments of a plurality of rainbows are sometimes to be seen in various parts of the misty curtain.

The charm of this extraordinary scene is enhanced by the sight of the wild duck, and other water fowl, swimming down the rapids to the brink of the precipice, then flying out and re-descending with manifest delight—while above, the blue bird and the wren, during their annual visit to Niagara, fly within one or two feet of the brink, and sport over the frightful fall with evident enjoyment, now verging on the crystal stream that flows over the precipice, now dipping a wing in the bright green wave or skimming

various distances according to the state of tion. been distinctly heard at Toronto, on the depth—and among many other similitudes, its roaring, rumbling, thundering noise, is said to approximate most nearly to the pealing artillery of two large squadrons at sea in thick weather, the auditor being about five miles distant; such as may have the fleets of Nelson and Brueys sent the reverberating echo of their dread hostilities along the Nile. A "suspension bridge" for Niagara is in progress, composed of wire, which it is supposed will be capable of sustaining a weight of 300 tons, to be conveyed over at a rate of 10 miles an hour. There are to be two tracks for carriages, and one for foot passengers. It is to be formed of three spans, with abutments 200 feet high The estimated cost is 200,000 dollars.

A little below the falls, the Niagara resumes its wonted soft beauty, and flows calmly onward to Ontario, a distance of 13 miles. On reaching Queenston, 6 miles from the falls (Upper or Western Canada side), and rises in abrupt and elevated ridges, which are supposed to have been the banks of the river in former ages. About 4 miles above Queenston, is a singular part of the Niagara river called the whirlpool, the mouth of which is more than 1000 feet wide, ison, in his interesting sketches of Upper dicular banks, resembling a bay. current, which is extremely rapid, whenever

swiftly along its surface:—who would not between two perpendicular precipices, not wish at such a moment for the wings of a more than 400 feet asunder. The surface of bird? The sound of the falls is audible at the whirlpool is in a state of continual agita-The water boils, mantles up, and the air, and the direction of the wind; it has writhes in a fearful manner that proves its been clearly distinguished at Buffalo, 18 depth, and extreme compression; the trees miles distant, and some say the noise has that come within the sphere of the current, are swept along with a quivering zig-zag opposite shore of Lake Ontario, a distance of motion which it is difficult to describe. 46 miles. The roar of the Niagara is almost This singular body of water must be several indescribable, being an alternation of open hundred feet deep, and is not known to and muffled sounds, likened by some to the have been frozen over, although in spring hoarse voice of ocean surges heavily lashing the broken ice that descends from Lake the shore-by others to the heavy plunge of Erie collects in such quantities upon its huge spherical rocks hurled in quick and surface, and becomes so closely wedged ceaseless succession from a precipice of together, that it resists the current, and great altitude, into waters of unfathomable remains there till broken up by the warm weather. The whirlpool is one of the greatest natural curiosities in the Upper province, and is the more remarkable, because unaccounted for by the ordinary laws of nature.

Fort George, or Niagara, or Newark, forbeen heard on the heights of Aboukir, when merly the seat of government, (distant from Toronto, round the head of Lake Ontario, about 40 miles) is situate upon a rising ground on the W. bank of the River Niagara, within a mile of the angle formed by the river and the lake. From Fort George along the Niagara river to Queenston, a distance of eight miles, there is a considerable elevation of the land on either side of the river, extending both E. and W about 14 miles The land rises for 10 miles further to Chippewa, but the river is only navigable for large vessels as far as Queenston, where it is about 200 yards broad, from thence to the falls it seldom exceeds 50 or 60 yards in width.

The Niagara River enters Lake Ontario the face of the country suddenly alters, in N. lat. 43° 15′ 30″, long 79° 00′ 40″, the difference of height between its efflux and afflux being 334 feet on a distance of 361 miles. Thus-difference of elevation between Lake Erie and the head of the rapids (distance 23 miles) 15 feet, thence to the foot of the rapids (half a mile) 51 feet; its length being about 2000 feet. Mr. How- height of the great fall on the American side, 162 feet; from the base of the falls to Canada, says, that the river has formed a Queenston (distance 13 miles) 104 feet; and circular excavation in the high and perpen- from Queenston to Lake Ontario, 2 feet-The total, 334 feet.

Lake Ontario is the last link in the chain. it reaches the upper point of this bay, for- and the most easterly of the great inland sakes the direct channel, and sweeps wildly American seas, which may well rank among round the sides of it;—having made this the wonders of the world. It hes E. and W., extraordinary circuit, it regains its original nearly half being in the state of New York, course, and rushes with perturbed velocity and is situate between the parallels 43° 10

and 44° 11' N. lat., and the meridians of 76° 25' and 79° 56' W. long; in form it tario exhibits great diversity; towards the is elliptical, and measures 172 miles on a NE they are low, with swampy marshes; central line drawn from its S.W. to its N.E. to the N. and N.W. the banks assume a extremity; in its greatest breadth 59 miles. medial 40, and about 500 miles in circumference; its surface being 234 feet above the tide waters at Three Rivers, on the St. Lawrence, and at Albany, on the Hudson. breadth varies greatly; from Toronto (York) to Niagara it is 35 miles; from Presqu'ile ing the lake is well wooded, and through the to Genessee river, 60 miles; from Ernest town to Oswego, 55 miles; and from Kingston to Sacket's Harbour, round the head of extremely picturesque along the white cliffs Wolf or Grand Island, 36 miles. According of Toronto, heightened on the N. by the reto some examinations, the depth also varies markable high land over Presqu'ile, called very much, there being seldom less than 3, the Devil's Nose. or more than 50 fathoms; except in the middle, where, at a depth of 300 fathoms no of Quinté, on the N.W. of the lake, along soundings have been obtained. The shores the northern shores of Ontario to the westof Ontario are generally covered with gravel, consisting principally of small pieces of limestone, worn smooth by the action of the ton), dividing the numerous streams and water; the gravel is deposited on the beach head waters falling into that lake from those in long ridges, sometimes several miles in extent, and when consolidated with the Lake, Otanabee river, and the contiguous clayey soil which generally abounds along chain of lakes At Toronto (York) this ridge the shore, it becomes firm under the feet, recedes N E from the lake to the distance and furnishes an excellent material for the of 24 miles, separating the waters of Holland formation of roads like that of the other lakes, and of the St. Huron and Simcoe, from those discharging Lawrence river, is limpid and pure (though themselves into Lake Ontario. not equally so with that of Lake Huron or then bending round the heads of the Toronto part of Lake Michigan), except when mixed river and its tributary streams, divides them with particles of earth from the shore, by from those of the Grand or Ouse river, purthe agitation of the winds (those of the Ohio and Mississippi are turbid, like the Ganges the head of the lake, merges in the Burlingand Orinoco); the water of Ontario is used ton Heights, and runs along the shores of for drink, and also for washing, though it is not so suitable for the solution of soap as Ontario (at a distance of from 4 to 8 miles), rain water. For a few days in June the to Queenston Heights; the direction conwater near the shores is annually covered tinuing eastward until it stretches into the with a vellowish scum, rendering it unfit for culinary or other purposes the cause of this phenomenon is unknown. During the height which it crosses and with which it runs of summer, the shore-water is too warm for parallel, until it arrives at Rochester. on the pleasant drinking, unless kept some hours Genessee banks, where it subsides; thus, as in a cool cellar are frequent, and attended with an unplea- basin of the lake, as far as regards the sant "sea." Every seven years the waters of the lake rise to an unusual height, for boundary. The ridge on the American side which no satisfactory reason has as yet been of Lake Ontario is called the Ridge Road, Ontario in calm weather are very remark- Rochester, on the Genessee, to Lewiston, on able: islands and trees appear turned upside the Niagara, and is composed of common down: the white surf of the beach seems to beach sand and gravel-stones worn smooth, be translated aloft; large fountains of water intermixed with small shells; its general appear to swell upon the horizon.

The physical aspect of the shores of Onbold appearance; which again subside to almost a plain on the southern or American shore; but well relieved, in the back-ground. by a ridge of hills, which, after forming the The precipice of the Niagara cataract, stretch away to the eastward. The country bordernumerous openings, the prospect is enlivened by flourishing settlements; the view being

A range of high land runs from the Bay ward, at a distance, in some places, of not more than 9 miles from them (as at Hamildescending N. into the river Trent, Rice The water of Ontario, river, and other streams falling into Lakes sues a south-eastwardly direction towards Burlington Bay, and the S.W side of Lake territory of the United States, to Lockport on Eric Canal (12 miles from Lake Ontario), Gales of wind on this lake it were, forming the shores of the original greater part of its northern and southern The refractions which take place on or Alluvial Way; it extends 87 miles from width is from 4 to 8 rods, and it rises in the gara its elevation is about 130 feet.

Many tributaries flow into Lake Ontario; which receives from the state of New York the rivers Niagara, Genessee, Oswego, and Black river, besides many smaller streams. Almost all these have a sand bar across their entrance. Among its bays, on the same side are Chaumont, Sodees (Great and

Little) Toronto, and Braddocks.

The principal river on the N. British shore is the Trent, which issues out of Rice Lake, and after a very circuitous course of 100 miles, falls into the Bay of Quinté, near the village of Sidney. The Otanabee, which falls into the N. shore of Rice Lake, may be considered a continuation of the Trent river, of which Rice Lake is merely an expansion, The Otanabee, like the Trent, is a broad and full river, and both are navigable for boats. From its source in Trout Lake, it communicates by a chain of lakes with Lake Simcoe, through which it is proposed to open a canal communication between Lakes Huron and Ontario.

Simcoe Lake, in Home district, between Lakes Huron and Ontario, with an area of 300 square miles, is the most extensive mense vessel. interior lake of Upper Canada; the elevation frequent falls and cascades by which its outlet is broken) is 100 feet above the level N lat., 79° 36' W. long. than either Lakes Erie or Ontario in the vicinity of Lake Simcoe are remark- 70 feet cultivation.

Rice Lake, in the district of Newcastle. about 15 miles from Lake Ontario, and lying nearly S.W. and N.E., is 25 miles long by 5 wide. Its name is derived from the wild rice growing on its margin and in the

surrounding marshes.

Several navigable bays occur on both sides of Ontario, particularly on the British shore, where Quinté and Burlintgon Bays

middle in a handsome crowning arch, from highly valuable; Quinté bay is secure, but 6 to 10 feet in height; at Genessee and Nia- its navigation rather intricate, owing to the windings and indentations of the shore of Prince Edward peninsula, by which it is fronted, together with many islands which. clustering at the end of the lake, divide its extremity into several channels. Stoney and Grenadier islands are at the east end of Ontario; Wolfe, or Grand Island, is at the entrance of the St. Lawrence; and the celebrated Thousand Islands are just below Wolfe or Grand Island-which, being placed at the commencement of the Cataraqui (Iroquois, or St. Lawrence) River, forms two channels leading into Kingston Harbour, bearing the names of the North, or Kingston Channel, and the South, or Carleton Island Channel.

Of the harbours, the most considerable, as is so frequently the case in American on the American side, is Sacket's Harbour, which is an excellent haven on the SE. shore, well fortified, with extensive arsenals and excellent docks for the construction of he largest-sized ships of war. One of the hree-decker ships of war built here by the Americans during the war, had 182 feet 8 inches keel, 212 feet on the lower gun deck, and 52 feet beam: 800 shipwrights were mployed 42 days in running up this im-

Toronto, formerly called Little York, is of its surface (estimated by the height of the situated in the township of York, near the N W. extremity of Lake Ontario, in 43° 39' The harbour of Lake Huron, and, therefore, much higher covers an area of 8 square miles, and is It is formed and well-sheltered by a long low proposed to connect Simcoe with Huron and sandy, almost insulated peninsula, in some Ontario Lakes by canals; which, however, places not 60 yards broad, but widening at would require frequent lockage, though the its extremity to nearly a mile, where there distance is comparatively small. The lands is a good light-house with an elevation of In 1793 when Mr. Bouchette ably fine; and from the depth of soil and visited this spot, he found dense forests, and equality of the surface, peculiarly easy of a solitary wigwam. In 1794 the first rudiments of a British settlement were formed.

In 1817 Toronto contained 1,200, and in 1826 only 1,700 inhabitants. For five miles around scarcely one improved farm could be seen adjoining another; the average being one farm-house in every three miles. Toronto had no brick houses, no tinned roofs, no planked side-walks: the stumps of trees remained in the streets; the site of the present excellent market place was an unstand conspicuous; the commodiousness of healthy bog-no banks, no markets, no the latter (in the S.W. angle of the lake) sewers—a few stores, and scarcely a schooner was impaired by a sand bank—but this dis-frequenting its wharfs. Now Toronto con-advantage is now remedied by a canal tains 30,000 busy and intelligent citizens which renders this safe and capacious bay rows of handsome brick buildings roofed

with tin-numerous places of worshipsplendid shops or stores, with plate glass windows-gas-lit and macadamized streets -town or city hall—a noble university wharfs loaded with produce, and crowded with steam-boats and schooners-board of trade-mechanics' institute-public baths -a fixed and floating property estimated at £5,000,000; — and around and about the city, in all directions, villas, farms, fine orchards and gardens. The principal entrance to the city is Yonge-street—a broad macadamized road, which runs several miles into the interior, studded on either side with mansions, dwellings, and cottages of the most pleasing and comfortable aspect There is a race-course, cricket-ground and racket-court, and a bowling-green, not excelled by any out of England. The college under the direction of Mr. Barron, and the university presided over by Dr M'Caul, are institutions of high repute. They are liberally endowed, and the instruction given in all branches of learning is on a solid basis and for reasonable terms.

The new college consists of five neat brick buildings, surmounted by an ornamental dome. A railroad is projected from Torouto to the mouth of Shawgene on Lake Huron river, 60 miles N. of Goderich, where a good harbour can be made. The distance to Lake Huron by the proposed route is 120 miles.

The classification of the Population of Toronto, and the Division of Wards, is shown in the Census of the City of Toronto, Canada, for 1845, compiled from the Assessor's Returns.

Wards

9,941

Males and Females.

Increase

						ŧ,			Total
35 1				1070	1000	1126	001	450	F.077
Males over sixteen	•			1972	1229	1170	901	400	901
Males over five and	u	$^{\mathrm{nd}}$	er						
sixteen				795	609	500	291	160	235t
Males under five	•	•	•	595			214		175
	•	•						120	119
Females over sixteen				2115	1317	1159	740	532	5863
Females over five and	111	nd	or						
				805	EEE	479	266	166	007
sixteen	•					4/9	200	100	221
Females under five				649	454	364	206	114	178
Total .				6021	1001	3988	2010	1545	i
Total .	٠	٠		10001	TUZE	109001	2010	TOTO	
* Total						19.70	NG		
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Total in	10	S	•			9,76	10		

RELIGIOUS PERSUASIONS.

Wards

Denominations

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Presbyterian Church of Canada				Ī					
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Disciples of Christ 42 24 100 10									
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Millerites	Quakers				5				9
hristian 1 Socialists 2 Mormon 1	Unitarians				13				
Socialists	Millerites				11		18		42
Mormon 1									1
	Socialists								2
No Religion 130 23 40 274									1
	No Religion				130	23	40		274

An intending settler, in a journey in 1844 through the country north of Toronto, recorded the following observations, which may interest immigrants:—

"With the drive through the beautiful country on either side the Great North-road (Yonge-street) we were highly delighted. The crops, though late, were luxuriant, and hold out to the farmer promise of a large return, and good prices Gentlemen's seats and handsome farm-houses, cheered the sight until we reached the 'Oak Ridges.' We there found the road naturally very good though a gravel track, and arrived at the 'Pinnacle Inn,' after attaining a height of 800 feet above the waters of Ontario; having passed the picturesque little sheet of water called 'Bond Lake' on the right, said to be without soundings, a little beyond the 'Pinnacle,' the road gradually descends, until the eye at length rests upon a rich and widely extended region, consisting of hill and dale, thickly covered with rich farms of the most valuable description Before us lay this beautiful picture, stretching fifteen or twenty miles, whilst far off to the right we now and then obtained peeps at the vales of Newmarket and Davidtown left we passed scores of thriving, beautiful farms, whose brick houses and comfortable out-buildings be-3 tokened the wealth of the owners. Among these stands conspicuous the handsome residence of Captain Irving. At Holland Landing (head of the Holland River) we came to a pretty little village, with mills, shops, &c, and were comfortably lodged at Fraser's hotel, after a pleasing drive of six miles. The following morning at even we were on board the well regu-lated steam-boat Simcoe. A calm lake and the good fare provided by our obliging and intelligent host, Captain Laughton, made this part of our excursion

peculiarly pleasant. The windings of Holland River for seven miles through a meadow of reeds and wild grass are extremely curious. in one instance the angle of the Elbow was so acute, that the head of the boat was within a few points of the compass of This prairie the house from which we started abounds with wild duck, and on its margin are found woodcock and snipe, in numbers to gratify the most fastidious sportsman. Emerging from this crooked stream, we struck boldly into the transparent waters of old Simcoe. On the east shore of the lake, and seven miles from the mouth of the river, we stopped at Roach's Point, a pretty little settlement, with an inn, store, &c. The farms we passed in coming to this place studded thickly the whole shore, and the wheat crops particularly were remarkable for their fine appearance. Leaving this place we passed close to Snake Island, a pretty spot, containing 400 acres, or thereabouts Here the Government has erected twenty or more comfortable cottages for Indian families, who pass their time happily and profitably in cultivating their farms, in hunting and in fishing A church with a tin-covered spire is soon to be built for them; this will greatly add to the present cheer-ing aspect of their little hamlet. Twelve miles from Roach's Point, after running by scores of fine farms and fields waving with luxuriant wheat, we came to Jackson's Landing, a sheltered, pretty little nook, with a shore so bold that the steamer could any where lie alongside it A little in the rear of this harbour is a populous settlement on the road leading to Toronto Near the Landing is the fine farm and pretty stone cottage, with green verandah, of Captain Bouchier, RN A mile beyond this, the spire of a neat church rears its head above the rich surrounding foliage. A resident clergyman is in charge Near the church, on a pretty jutting point, stands the handsome residence of Mrs Sibbald, surrounded apparently by that neatness and comfort which render a country life desirable. Captain Lee's fine farm, and one belonging to Mr. Campbell (late of the North American Hotel), adjoin that of Mrs. Sibbald The forest is here pierced every quarter of a mile by a pretty clearing, with its dwelling, barns, and outhouses around it, until we arrive at Beavertown, or Little Talbot, where the lesser branch of the Talbot River falls into the lake. We passed between the main shore and Georgina Island, a naturally beautiful spot, six miles in length, and containing perhaps 2000 acres. It belongs, like all the other islands, to the Indians, and is taken care of by the Government for their use as a hunting and fishing station

Beavertown, or Beaverton, is a flourishing little place, contains two saw-mills and a grist-mill, and is supported by a fine settlement in the rear the water would drive extensive machinery. Opposite this village is another Indian island, called Thorah Island, containing about 1,200 acres. Beyond this we passed the mouth of the Great Talbot River, over which a bridge was visible from the boat. We now came to Chewitt's Point, in the township of Mara, and then stretched across a deep bay, to Creighton Point. This is a beautiful strip of land, containing upwards of 900 acres, covered with fine forest trees, among which the elm, the ash, the oak, and the maple predominate On this Point the Indians make every spring many thousands of pounds of maple sugar. This beautiful Point, together with the whole frontage, until we passed through the Narrows (probably fifteen miles along the line of shore), is the property of Captain Creighton, of To-

ronto, who purchased it as long since as 1831. We now rapidly approached the beautiful entrance to the far-famed Narrows.

Lake Simcoe is in length about 45 miles, and varies in breadth from 2 to 20 miles; perhaps the widest part is between Thorah and the county town, Barrie The basin which contains this limpid lake 18 formed of secondary limestone, alternating with clay and marl At Holland Landing the lake has evidently receded from the foot of the hill, where Thorne's mill now stands. This hill branches off to the north at the Landing, and passing by the rear of the Barrie, skirts the lake until it arrives at the Narrows, where, passing in rear of the little village of Orillia, it shoots away toward the north-west. On the east shore of the lake the soil is said to be richer than that on the west. This may be occa-sioned by the westerly winds causing the debris of the west bank to be deposited on the shore The country rises gradually from the water on the east shore of the lake, until it attains an elevation of 300 feet The circumference of Lake Simcoe being 120 miles, it is natural to suppose so large a body of water would make for itself a channel in some di-This has been effected at the Narrows, where the hills begin to recede from the lake. At this point there is a perceptible current toward the north, which, increasing as it flows through this contracted highway, acquires the velocity of three or four miles per hour, until it becomes mingled with the waters of the pretty Lake Coochasing. Lake Coo-cha-sing is 40 miles in circumference, and forms at its N W. extremity the river Severn. Here its waters, mingled with those of Lake Simcoe, are hurried over rocky precipices and rapids, until finally they reach the surface of Lake Huron The Narrows, from shore to shore, are only 300 yards. The bottom is a greasy marl, through which the water has worn a channel nine feet deep, and only thirty feet in width. We saw shoals of large fish as we passed through, the transparency of the water enabling us to distinguish the class they belonged to at a depth of several feet. The steamer at length landed us within the little lake, at the village of Orillia. A comfortable inn and clean beds induced us to prolong our stay three days. At Orillia a good road conducts the traveller to Coldwater, on Lake Huron. About 2,000 bushels of surplus wheat were purchased last winter at Mr Dallas's fine mills, near the Narrows, for which he paid (and is now paying) 5s. cash per bushel. At Holland Landing 10,000 bushels were brought from the circuit of the lake, and produced the same price. In the Indian village in Lake Coochasing, are quarries of free-stone, limestone of several shades and kinds, and abundance of fire-stone These quarries are worked without the use of gunpowder, and produce slabs of an extraor-dunary size The day is probably not far off when all the pretty points at the Narrows will be studded with the cottages of gentlemen, attracted thither by the healthfulness of the climate, the beauty of the scenery, or the richness of the soil. Shooting they will have in abundance, and the waters abound with maskmonge, the white-fish, salmon-trout, black bass, and herrings of a very fine and large kind; the smaller fish are also plentiful.

Tiny, one of the townships beyond Lake Simcoe, now in progress of settling, is about seventeen miles in length, and averages about seven miles in breadth. It is bounded on the west and north by Lake Huron, on the east by Penetanguishene Bay and Penetan-

guishene-road, and on the south by the Township of the voyager approaches a fall but little known, yet flos. The village of Penetanguishene is situated on combining in an eminent degree all the attributes the east side at this township, near the souther which constitute beauty. From Balsan Lake, an extremity of Gloucester Bay. In this village there are four merchants' stores; but their trade is chiefly with the Indians for fur. The buildings, with the exception of about four or five, are all of log. The inhabitants, in all, are probably about one hundred, and are chiefly composed of French Roman Catholic Canadisas, a good deal intermixed with half-caste Indians, and are principally dependent on the fur trading and fishing for their support. There is a Catholic church and clergyman in the place, and a rather large congregation is afforded between the village and neighbouring settlement. There are now about a thousand inhabitants, who have grist and saw-mills, and are rapidly thriving. About two miles further north, or up the Bay, on the Township of Tay Side, there are Government Barracks and a military establishment."

On the margin of Lake Ontario, between Toronto and Kingston, the whole country is extremely fertile and beautifully cultivated. Port Hope, Cobourg, Bond Head, and Whitby are the principal towns and ports.

Newcastle harbour, in the township of Grahame, is situate somewhat more than halfway between Toronto and Kingston; it is well protected from winds, and almost encircled by a peninsula, which projects in a curve into the lake, forming a basin of sufficient depth for shipping, and affording a good landing. The harbour is somewhat difficult of entrance.

Peterborough, the district town of Newcastle, is well placed at the foot of a series of rapids formed by numerous scattered inland lakes and streams. A recent visitor

"Between the village of Peterborough and the navigable waters in the rear, a space of eight miles intervenes, presenting a wild turbulent rush of waters, alternately swift streams, dangerous rapids, and every mile or so a noisy cascade. The river flows through a limestone formation, in some instances stretching from bank to bank, one hundred yards of solid smooth rock. Beyond this chain of rapids the waters spread out in every form and shape the imagination can suggest. Lakes varying in size from one to ten and twelve miles in diameter—the rolling lands covered to the margin with the luxuriant foliage of boundless and magnificent forests: the soil singularly fertile; the climate favourable to human health. Along the surface of these waters the voyager may sail in deeply-laden boats for ninety miles east and west, and thirty miles north and south: but the stillness of the forest is around him, with few exceptions nothing greets his gaze save the monotonous outline of the sembre and gloomy forest; an occasional savage may be seen chasing the deer, spearing his fishy prey, or awaiting the dark clouds of wild fowl which resort to these haunts almost undisturbed. The signs of civilization are few and far spart-stretching away to the west, and ascending a deep placed river, bounded by high cliffs of limestone,

traders are in the habit of ranging the country along the shallow streams, until they gain the waters of Simcoe on one side, and approach those of the Otta-wa on the other; but as yet no indications of settlement or agricultural improvement are perceptible. Descending the stream from that point, we first enter a small lake surrounded with swelling ridges of pine, from whence the waters pass through a channel called after an ancient Indian tribe who dwelt upon its margin, and whose graves yet remain—the Otonobee, a name soft and musical if pronounced in the Indian dialect. This stream leads the navigator into Rice Lake, from thence he passes down the Trent into the Bay of Quinte Such are the outlines of the country -such the facilities and difficulties of its naviga-

In 1827 the spot on which is now the flourishing town of Guelph, with its surrounding rich agricultural district, was a dense, untrodden wilderness. The value of the land along the Detroit river in the western district increased 300 per cent. in three years. Dr. Rolph, writing in 1841, stated that "some farmers who would have sold their farms two years ago for 1,200 dollars, have refused this year 20,000 dollars for the very same property."

The town plot of London at the forks of the Thames, was only surveyed in 1826, it now contains five thousand inhabitants; a thousand houses; a court house, several temples of worship, large market-place, schools, public libraries, hotels, and many excellent merchants' stores. A fifth of an acre for building fronts, recently sold at the rate of £100 an acre, whereas the original town lots had cost but £10 an acre.

Hamilton is a flourishing town at the western extremity of Ontario. It contains buildings which would be no disgrace to any city in Europe. An extensive nail manu factory has been established, with machinery equal to any other of the kind in America. Forty acres of land that might have been bought in 1833 for £600 had so increased in value in 1839 that one acre sold by public auction for £1,250.

The progress and state of the different divisions of Western Canada will be shewn when examing their products in 1848.

Kingston, distant from Toronto, 184, and from Montreal 180 miles, stands in lat. 44° 8', lon. 76° 40' W., it is advantageously situate on the north bank of Lake Ontario at the head of the river St. Lawrence, and separated from Points Frederick and Henry, by a bay which extends a considerable disrow peninsula, extending about half a mile into the lake in a S.E. direction, distant from Kingston about three quarters of a a narrow and deep inlet called Navy Bay, The extremity of the point is surdockvard with store-houses, &c.

Point Henry, which forms the E. side of Navy Bay, is a high narrow rocky ridge, extending into the lake in the same direction as Point Frederick. It is crowned by a fort, built on the extremity of the ridge, and occupying the highest point of ground in this part of Canada. The dock-yard, storehouses, slips for building ships of war, naval barracks, wharfs, &c., are on an extensive scale; during the war, a first-rate (the St. Lawrence) carrying 102 guns, was built here, and in a case of emergency, a formidable fleet could in a very short time be equipped at Kings-About the year 1600 the French seeing the value of this position commenced a settlement, which was at first called by the Indian name of Cataraqui, and subsequently Frontenac; but on our conquest of the province it received its present name.

Kingston, next to Quebec and Halifax, is the strongest British post in America, and next to Quebcc and Montreal, the first in commercial importance; it has rapidly risen of late years, by becoming, through the means of the Rideau canal, the chief entrepôt between the trade of Eastern Canada, and all the settlements on the great lakes to the westward. In 1828, the population of the city amounted to 3,528. In 1848 to 8,360.

The increasing value of property is shown in the fact that Bishop Macdonnel, in 1816, bought 11 acres for £600, and in 1840 sold the land in building lots for £1,000 an acre. In the same year the Rev. Mr. Herchimer held 200 acres valued at £200, and in 1841 government bought 188 of the acres for £30,000, and the proprietor reserved to himself 12 acres facing Lake Ontario. 1809, an estate of 100 acres, known as the Murney property, was purchased from the original grantee for £500, and in 1840 government purchased 32 acres of the estate for £19,000. Kingston has the finest teams may be seen at one time in the mar- which the extreme range is 347 miles.

tance to the N.W. beyond the town, where principally of dark freestone, at a cost of it receives the waters of a river flowing from £400,000. The population doubled itself the interior. Point Frederick is a long narin 4 years. A fleet of 200 barges, and schooners of 60 to 250 tons burthen, are employed at Kingston in transhipping the up and down freight on the lake. This peninsula forms the west side of contrast the present navigation on the lakes offers to the period when the French built from its being our chief naval depôt on Lake the first vessel on the shores of Lake Erie in 1679, and named it the Griffen. She was mounted by a strong battery, and there is a manned by a crew of Frenchmen, and commanded by La Salle, the celebrated voyageur, who navigated the Mississippi to the

> The importance of the inland navigation afforded by the St. Lawrence and the other great lakes it is difficult to overrate. Vessels may now traverse an extent of water equal to the distance between Europe and America. Supposing a steam propeller to take freight at Ogdensburgh, an inland point on the St. Lawrence, more than 650 miles from the Atlantic, for Chicago, she travels a distance of 1,300 miles. Having freight now offered for the military posts on Lake Superior, she runs (supposing the St Mary's lock at the Sault to be built) an additional 800, making it 2,100 miles; and her direct return route with produce would be full 1,000 more, making in all a distance equal to that between America and Europe. This inland journey may be increased to 4,000 miles by commencing the trip at some of the lower ports on the St. Lawrence. illustration-

> Quebec is 350 miles from the ocean. The completion of the Welland canal and similar works on the St. Lawrence invites commerce, and by the above means steamvessels will extend their trips beyond Montreal and Kingston to the head of Lake Ontario, at the terminus of the Welland Canal, a distance of 600 miles. From this point they proceed westward to Chicago, 1000 miles further, and return to Quebec with grain or produce, without a single transhipment. This direct business trip is 3,200 miles long, and may, of course, be continued to the ocean. The trade is now with Kingston and Montreal, but it must extend still further down on both sides of the St. Lawrence.

By means of the Welland canal the navigation of the lake is uninterrupted for the distance of 844 miles from E. to W., and market-place in America, and 300 or 400 from N. to S. for a varying distance, of kct. In a few years 700 houses were built, large part of the 400,000 square miles of country which these lakes drain is remarkably rich and varied, and, when cultivated, yields ence commences flowing rapidly, and has

On the Ontario Lake 40 steam-vessels are employed in traffic and in the conveyance rupted by two small rapids, the Du Plat and of passengers. During the winter the N.E. Galoose, half a mile, and a mile and a half part of Ontario, from the Bay of Quinté to ong. The most difficult rapid is the Long Sacket's Harbour, is frozen across; but the Sault, in front of Osnaburgh above Cornwider part of the lake is frozen only to a wall (46 miles from Montreal) which is short distance from the shore. On Lake about 9 miles long, intersected by several Erie, which is frozen less than Ontario, there slands, through whose channels the water are about 100 steamers of various sizes, some rushes with velocity, so that boats are of them carrying 1,500 passengers at a time carried on it at the rate of 27 miles an hour: to the settlements on Lake Michigan; the at the foot of the Rapid, the water takes northern parts of Huron and Michigan are a sudden leap over a slight precipice, whence more frozen than either Erie or Ontario; and its name. Superior is said to be frozen to a distance of Buffalo. when the ice is glare (smooth). One of 16 feet wide. these is described by Lieut. De Roos as 23 feet in length, resting on 3 skates of iron, ern and Western Canada, and to place the one attached to each end of a strong crossbar, fixed under the fore part,—the remaining one to the stern, from the bottom of the rudder, the mast and sail are those of a common boat: when brought into play on the ice, she could sail (if it may be so termed) with fearful rapidity, nearly 23 miles an In addition to her speed before the wind, she is also capable of beating well up to windward,-requiring, however, an experienced hand to manage her, in consequence of the extreme sensibility of the rudder during her quick motion.

Ontario, at its junction with the St. Law- ton, in N. lat. 45° 30', W. long. 76° 50' rence river at Kingston, is so strikingly about a mile below the Falls of Chaudière, beautiful, as to have obtained for it the and one mile and a half above the point poetical appellation of the "Lake of the where the Rideau river falls into the Thousand Isles." issues from Ontario, it is 12 miles wide, entered by eight locks; it then passes divided into two channels by Wolfe Island, through a natural gully, crosses Dow's which is 7 miles broad, the widest channel Swamp-which is flooded by means of a on the N. side being 31 miles across.

The second British township, Leeds, 32 miles below Kingston (at the mouth of the Gannanoqui river) has an excellent harbour: Bay. At the Hog's Back there is a dam 45 the river continues narrowing down to feet high, and 400 long, which, by throwing Prescott, which is distant 62 miles from Kingston, 243 from Toronto, and 385 from rapids into still, navigable water. The canal Quebec. Prescott is well defended by its rises into the river by means of a lock. A stronghold, Fort Wellington, which com- series of locks and dams now commences, mands the navigation of the river.

A few miles below Prescott the St. Lawin abundance subsistence for man and beast. a shallow course for four miles, with a speed of from six to eight miles an hour, inter-

The Cedar Rapids, 24 miles from La 70 miles from its coasts. On Lake Huron Chine, are 9 miles long, and very intricate; there are only a few steamers; and on the waters run at the rate of from 9 to 12 Lake Superior, a lesser number; but one miles an hour, with in some places only 10 steamer continually plies to and from feet depth in the channel. The Coteau du The navigation of Ontario closes Lac rapid, 6 miles above the Cedars, is 2 in October; ice-boats are sometimes used miles long, intricate, and in some places only

> To improve the navigation between Eastinternal traffic beyond the reach of molestation during any war that might unfortunately occur with America, has been a leading object with the British government and local legislature, and large sums have consequently been expended on different public works, and especially on canals.

The Rideau Canal,-This far-famed undertaking, which is not, properly speaking, a canal, but rather a succession of waters raised by means of dams, with natural lakes intervening, commences at a small bay, called Entrance Bay, in the Ottawa, 128 The appearance of the N.E. extremity of miles from Montreal, and 150 from Kings-As the St. Lawrence Ottawa. From Entrance Bay the canal is mound-Peter's gully, by means of an aqueduct, and joins the Rideau river at the Hog's Back, about six miles from Entrance back the river, converts about 7 miles of with occasional embankments.

Island Rapids, which render the river navigable for 24 miles, to Barret's Rapids, 167 miles from Montreal; 8 dams and 14 locks bring the canal to Olive's Ferry, 210 miles contracts to 463 feet wide, and a ferry connects the road between Perth and Brock-At the Upper Narrows, 16 miles further, the Rideau Lake contracts again to about 80 feet across, over which a dam is Ottawa: 6 miles further is the isthmus, Cataragui. The canal is cut through this Lake, 330 feet wide, through which a cut is made, to avoid the rapids of the natural channel.

From thence to Cranberry Marsh, 17 miles from Isthmus Clear Lake, 255 miles from Montreal, and 23 from Kingston, there are 3 dams and 6 locks. The Marsh is about 78 feet above the level of Kingston harbour, and about 8 miles long. Besides flowing into the Cataragui river, the waters of this marsh or lake burst out at White Fish Fall, and flow into the Gannanoqui river, which is the waste weir for regulating the level of the water in the Rideau Lake (the summit pond); thus the water in the whole line of canal, whether in times of flood or drought, is kept at a steady Mills, 18 and 17 miles from Kingston, there are 3 dams and 5 locks; and at Kingston Mills, 5 miles from Kingston, one dam The Canal, or Cataraqui and 4 locks. River, falls into Kingston Bay at these mills, at a distance from Montreal of 273 miles.

The canal now described opens, it will be perceived, a water communication between

At the Black Rapids there are a dam in length, 33 in breadth, and with a water and lock, 138 miles from Montreal; a dam, depth of 5 feet, which admit vessels under three locks, and two embankments, at Long 125 tons. The expenditure on this canal greatly exceeded the original estimate, which was only £169,000—the next, before the plan of enlarging the locks was adopted. amounted to £486,000, which was raised by from Montreal, where the Rideau Lake the addition of the locks to £762,673; but the total expenditure is now calculated to exeed one million sterling. The locks were originally planned upon a scale to correspond with those on La Chine canal, i. e. 100 feet by 20; these dimensions were subsequently thrown with a lock of 4 feet lift, forming increased to 142 feet in length by 33 in the Upper Rideau Lake into a summit pond width, with a depth of 5 feet water; hence a of 291 feet above Entrance Bay, in the considerable augmentation of expense. The anal has been in use 16 years, and every which separates the Upper Rideau Lake part of it looks fresh and perfect as when from Mud Lake, the source of the River first finished. At each lock station, neat lock-master's houses have been built, trees isthmus, which is one mile and a half wide; planted, and grass-plats formed; the whole 5 miles lower down is the Isthmus Clear surrounded by substantial iron railings. stone walls, or wooden fences.

A more striking proof of the good effect of this fine canal can scarcely be desired, than that 15 years ago there was but one farm on the long bend of the Rideau river, 27 miles, while now there is scarcely an unsettled lot. The country along the banks of the canal, and the shores of its numerous lakes, is very generally occupied. The former hamlet of Newborough, at the Isthmus, has become a thriving, well-built, and populous village, with stores, taverns, post office, Westport, on the Upper Rideau Lake, &c. is also thriving. The land around is good, crops excellent, and settlements are forming in the interior.

The Welland Canal connects Lake Erie height. At Brewer's Upper and Lower with Lake Ontario. It was not undertaken by government, but by a company incorporated by the legislature in 1825. This canal communicates with Lake Ontario by the Twelve-mile Creek, and is conducted over the range of hills forming the barrier of Lake Ene, at the Falls of Niagara, by means of locks, until it meets the Chippawa at 81 miles from its mouth, which it then ascends for about 11 miles, and joins the Kingston and the Ottawa, a distance of 132 Ouse upon Lake Erie at about one mile and miles, by connecting together several pieces a half from its mouth the shifting bar at of water lying in that direction, viz.: Kings- the entrance of the Ouse being remedied by ton Mill-stream, Cranberry Lake, Mud Lake, piers extending into deep water beyond the Rideau Lake and river, the length of the bar. The length of the canal is 42 miles, cuts not exceeding 20 miles. The difference its width 56 feet, and its depth 81: the of level is 445 feet; about 20 miles are exca- summit level is 330 feet, the ascending vated some parts of the distance through locks are 37 in number (made of wood). There are 47 locks, each 142 feet 22 feet wide, and 100 feet long. The cost of this canal has been upwards of £500,000; capable of admitting first-class steamers on but it now yields a rapidly increasing return

for the capital expended.

sections, one at the Long Sault on the Ottawa—another at the fall called the Chûte à Blondeau, 60 miles from Montreal and 218 from Kingston—and a third at the Carillon Rapids, 56 miles from Montreal and 222 from Kingston, opening into the Lake of the Two Mountains, through which an uninterrupted navigation is maintained by steam-boats to La Chine, 9 miles above the city of Montreal. This canal renders the navigation of the Ottawa, between the Rideau and Montreal, complete. All the locks on the Carillon, and on the Chûte à Blondeau, are of the same size as on the Rideau, was commenced before the large scale was adopted, some locks, and a part of the cuttings, will only admit boats 20 feet wide: for boats only 20 feet wide; the navigation for boats above 20 feet wide is interrupted at the Grenville Canal, and if large boats be used on the Rideau, and on the higher part of the Ottawa, all goods must be unshipped on arriving at the Grenville canal, and either be conveyed by portage, or re- railways. moved to smaller boats.

Ontario, to Bytown, where the Rideau river joins the Ottawa, is about 150 miles; from Bytown to the Grenville canal, 64 miles—total 214 miles, through the whole of which line, the locks and cuttings are of a size to admit steam-boats 134 feet long and 33 feet wide, and drawing 5 feet of water.

Montreal, is termed—

La Chine Canal—and is 28 feet wide at the bottom, 48 at the water line, has 5 feet depth of water, and a towing-path; the whole fall is 42 feet with the locks; the length being about 7 miles. It is the property of a company; was begun in 1821 and completed in 3 years, at a cost of £137,000, which was defrayed by the company, slightly assisted by government, in return for which aid the public service is exempt from toll.

The Cornwall Canal is 12 miles in length and has 6 locks, which obviate the Long Sault rapids. The locks are on a large scale,

he river, and its stone work is very massive.

By means of the great and useful works The Grenville Canal consists of three just mentioned, a large extent of country is opened up to the industry of British settlers: there is continuous steam-boat communication in Upper Canada for about 460 miles, viz., from the Grenville canal, on the Otawa, to Niagara. Many other canals are in contemplation, some even commenced, such as that projected between the Bay of Quinté and Lake Huron, through Lake Simcoe, which will render us independent of the Americans on the Detroit river. The Thames is also to be made navigable for steam-boats, from Chatham up to the Port of London, and if railroads do not take the place of canals, there is little doubt of but on a part of the Grenville canal, which the greater part of Canada being, in a few years, intersected by them. The value of anals and steam navigation may be judged of from the fact, that, in 1812, the news of the locks on La Chine also are calculated the declaration of war against Great Britain, by the United States, did not reach the post of Michilimakinac (1,107 miles from Quebec) in a shorter time than two months; the same place is now within the distance of ten days' journey from the Atlantic. similar remark applies yet more strongly to The route from Montreal to Kingston, 171 miles by the St. Lawrence, The distance from Kingston, on Lake and 267 miles by the Rideau canal, via St. Ann's, is now performed by a large, fast, and elegant class of steamers, passing down the Long Sault rapids to the Côte du Lac, and returning by the Cornwall canal. From the Côte du Lac to the Cascades there is 16 miles to be travelled by stage, thence to Lachine by steamer, and thence to Montreal 9 miles more by stage. The voyage may The Montreal communication with the also be performed in a smaller class of Ottawa, by the canal between the former steamers, which pass down all the rapids place and Lake St Louis, at La Chine, near direct to Montreal, and return by the Rideau canal. The trip round occupies B About 30 small steamers and prodays. pellers are employed on this line. Recently a fine screw schooner, named the Adventure, belonging to the "Toronto and St. Lawrence Steam Navigation Company," went from Toronto to Montreal (470 miles) laden with freight, in 21 days.

Western Canada was divided by the Act 8 Vic. c. 7, into 20 districts, which are again subdivided into 32 counties, for the more effectual legislative representation and the registration of property. The counties are laid out in townships, surveyed, and

prepared for location.

86 DISTRICTS, COUNTIES, AND TOWNSHIPS OF W. CANADA IN 1848.

District	8.		Towns not Represented.		Counties, Ridings, and Citie	Number of Town- ships in each County	Population of Counties.	Population of Districts.
Bathurst			Perth		United {Lanark			29,418
Brock .	•	٠	Woodstock .	•	Oxford	12	29,219	29,219
Colborne			Peterborough		Peterborough	19	21,379	21,379
Dalhousie				{	Carleton	10	19,245 6,275	
Eastern .				$\left\{ \right.$	Stormont	4 4	11,471 10,723 15,005 1,454	25,520
Gore .		.{	Brantford . Dundas .	{	Wentworth	8 8	19,546 29,580 9,889	38,653
Home	•				York South	11 4 4 5	17,050 21,033 24,530 20,236 23,503	59,015
Huron .	•	.{	Goderich . Prescott .	{	Huron	21	20,450	106,352
Johnstown				{	Grenville	5 11 —	17,160 23,835 2,449	20,450
London .				{	Middlesex	17	41,963 4,584	43,444
Mıdland	•			{	Frontenac United {Lennox Addington Kingstown, city	15 3 6	17,311 6,484 13,135 8,369	46,547
Newcastle	•	{	Port Hope . Cobourg .	{	Durham Northumberland .	6 8	23,346 24,087	45,249
Ottawa .				{	Prescott	6 4	8,663 1,701	47,433
Niagara .			St. Catherine's	{	Lincoln	. 8	17,774 17,732 12,719 3,100	10,364
Prince Edwar	d	1			Prince Edward	6	18,061	51,325
Simcoe .			Picton		Simcoe	. 23	23,060	18,061
Talbot .					Norfolk	. 7	15,716	23,060
Victoria .					Hastings	12	23,133	15,716
Wellington			Belleville .		Waterlee	27	41,439	23,133
Western				{	Fanor	8 21	12,630 14,810	41,439
						1		27,440 723,247

The cities are Toronto, Kingston, and Hamilton; the incorporated towns, Bytown, Cornwall, Brockville, Prescott, Picton, Belleville, Coburg, Port Hope, Niagara, St. Catherines, London, Peterboro, Brantford, and Dundas.

The province of Western Canada has generally been viewed in three great divisions,the (1) Eastern, (2) Central, and (3) Western. The first comprises the districts W. and N.W. of Montreal, lying between the St. Lawrence and Ottawa, and N. of the Ottawa. It includes the Eastern, Johnstown, Ottawa, and Bathurst districts. The Eastern district commences at the boundary line separating Eastern from Western Canada, and runs along the St. Lawrence, with part of Lake St. Francis (an expansion of the St. Lawrence) and the Long Sault rapids in front, until it reaches the adjoining district of Johnstown; inland it is bounded by the Ottawa district.

A range of elevated table-land commences at Lochiel and runs diagonally to the township of Matilda, whence it passes into the

adjoining district

The Eastern district is rich, well watered, cultivated, and fertile, some of it has been granted to discharged soldiers, a good deal to the children of New England loyalists and the Canada Company possesses some lots in it.

The district in the rear of the one just described, and bordering on the S. shore of the Ottawa, from the Rideau river to the St Lawrence, is termed the Ottawa district; is but thinly settled; the lands are good but low and marshy; along the Rideau canal cultivation is progressing, and as civilization increases, those very lands which are now considered useless, marshy soils, will become among the most fertile sections in the country.

The Johnstown district hes along the St Lawrence to the westward of the Ottawa and Eastern districts; the Rideau canal passes through the centre. The soil is generally good, and it is advantageously situated The districts on the N., bounded by the Ot tawa, are those of Bathurst and Dalhousie.

The townships on the Ottawa, N.W. o Bathurst district, are in great demand lumberers now go 250 miles beyond Lak Chat; and as the Ottawa has few rapids the northward, towards its junction with Lake Nipissing, we may command a shorte communication between Montreal and Georgian Bay, and Lake Huron, than we now

ave through Lakes Ontario, Erie, and the Detroit. A great part of this district is colonized by highland and lowland Scotchmen, whose prudent thrifty habits admirably

qualify them for emigrants.

The next division, as we proceed westward, s the long and extensive tract formerly called the Midland District, but now subdivided into the Prince Edward and other districts. The base or southern extremity of this tract rests on the St. Lawrence and ake Ontario, in the parallel of 44° N., its orthern boundary extends to 46° 30, and s terminated on the N.E. by the Ottawa iver.

The preceding districts form the eastern section of the province, and present geneally a moderately elevated table-land, delining towards it numerous water-courses; the forest-timber is large and lofty, and of every variety. The soil, though moist and marshy in many places, is extremely rich, consisting chiefly of a brown clay and yellow loam, admirably adapted to the growth of wheat and every species of grain; the rivers and lakes are extremely numerous; of the former may be mentioned as the most remarkable, the Rideau, Petite Nation, Mississippi, and Madawaska, which have their sources far in the interior, generally to the westward, and which fall into the Ottawa. the Gannanoqui, Raisin, Cataraqui, Napanee, Salmon, Moira, and part of the Trent discharge themselves into the Bay of Quinté and the St. Lawrence: these streams, besides fertilizing the lands through which they flow, afford, many of them, convenient inland communications, and turn numerous grist, carding, fulling, and sawmills

Besides numerous lesser lakes, there are the Rideau, Gannanoqui, White (Henderson's) Mud, Devil, Indian, Clear, Irish, Loughborough, Mississippi, Olden, Clarendon, Barrie, Stoke, Marmora, Collins, Blunder, Angus, and Ossinicon. There are many roads throughout the section; the principal one is along the St. Lawrence, between Montreal and Kingston, traversing Cornwall and Lancaster, through which a line of stage-coaches run between the two provinces every lawful day, when steam-boats cannot Kingston, the maritime capital of Western Canada, has to the westward the fine Quinté tract, in a prosperous state of cultivation.

Bytown, in Nepean, on the S. bank of the Ottawa, is most picturesquely situate. Ottawa and St. Lawrence. There are several

other rising settlements.

The second or central division of Upper Canada embraces the large districts formerly called Newcastle and Home, with a frontage of 120 miles along Lake Ontario, in 44° 30' N. lat, and stretching back northerly to the Ottawa, Nipissing Lake, and French river in 46° 30' N. lat. By the Act 8 Vic c. 7, this extensive tract has been separated into several districts. [See map of Western man with a view to ornament. Canada.

is numerous, compared with other districts, or Upper Canada. there is yet abundance of room for more It is well watered by the Rice, Otanabee rivers, part of the Trent, &c. The extensive territory adjoining Newcastle, with its N W. extremity resting on Georgian Bay (an inlet of Lake Huron) is termed the Home District it contains the capital of Upper Canada, Toronto (late York).

or west portions of the province it is well ketchsebé, Beaver, Talbot, and Black rivers of steam-boats, sloops, and other vessels. fall into Lake Simcoe; the Credit, Etobi-Lake Ontario.

throughout the section.

may be considered a vast equilateral tri- increase. angular peninsula, with its base extending undulating surface, except a few solitary table-land in the Gore and Niagara districts, averaging 100 feet, and at some points approaching to 350 feet in height. The whole other in America. tract is alluvial in its formation, consisting Extensive roads in a state of nature, a rich and deep vege- the intending settler table mould. The substratum is a tenacious

Perth is a thriving village in the township grey or blue clay, sometimes appearing at of Drummond, on a branch of the Rideau, the surface, intermixed with sand. Throughoccupying a central position between the out the country, there is almost a total absence of stones or gravel, within arable depth, but numerous and extensive quarries xist, which furnish abundant supplies for The forests are remarkable building, &c. for the steady growth and the rich foliage of their trees: in several places immense prairies or natural meadows exist, extending for hundreds of miles, and with the vista delightfully relieved by occasional clumps of oak, white pine, and poplar, as if planted by delicious climate stretching from 42° to 44° The soil throughout this large district is N. latitude, it is not to be wondered at generally good and though the population that this section is the favourite of Western

The district to the southward of Gore, and termed Niagara, from being bounded Balsam, Trout, and other lakes, and by the to the E. by the river and cataract of that name, is one of the finest and richest tracts n the world, and most eligibly situate in a bight, between the magnificent sheets of

water, Erre and Ontario.

The scenery throughout this part of Canada is extremely picturesque Fort George, The central section of Upper Canada does or Niagara, is the sea-port (if it may be so not fall short in fertility, either of the east called) of the district; the fort is strong, and the neat town all bustle and garety, watered, the Nottawasaga, Holland, Mus- owing to the frequent arrival and departure

The London district and its recent subdicoke, Humber, and Don rivers flow into visions have the advantage of a great extent There are excellent roads of water frontier, along the shores of Lakes Erie and Huron, besides a large portion of The third section of the province, termed the Thames, and the river Ouse on Lake the Western, includes the Gore, Niagara, Eric, and Aux Sables and Maitland on London, Western, and other districts; and, Lake Huron. London town is in the heart circumscribed as it is by the waters of the of a fertile country, on the banks of the fine great Lakes, Ontario, Erie, and Huron, it river Thames, and will no doubt rapidly

About the central part of the north coast from Fort Erie to Cape Hurd, on Lake of Lake Erie, colonel Talbot founded a Huron, measuring 216 miles, and a perpensettlement which reflects credit on his head dicular striking the Detroit river at Am- and heart. Ever since the year 1802 this herstburgh, of about 195 miles in length, benevolent man has persevered in opening with an almost uniformly level, or slightly the fine country around him to the English emigrant. The Upper Canada Company emmences, and a ridge of slightly elevated have some of their land in this district. The scenery around, especially on the river Maitland, is more English-like than that of any

Extensive roads are now making in every chiefly of a stratum of black and sometimes direction, and the London district offers a of yellow loam, above which is found, when most eligible spot for the consideration of

CHAPTER III.

GEOLOGY, MINERALOGY, SOIL, AND CLIMATE.

In briefly sketching the leading geological features of our Colonies, I beg to be understood as doing no more than registering such facts and observations as have yet been remarked by those who have made it their study to extend the limited knowledge as yet possessed concerning the surface of our globe. I would further beg to remind my readers, that the geology of a country not with on the surface of the earth, which have only indicates the quality of the soil, but the appearance of vitrifaction. exercises an important influence on the salubrity of the climate.

Following the arrangement adopted in the preceding chapter, I begin with the geology and mineralogy of Lower or Eastern Canada

There are in America as manifest traces of an universal deluge as on the lofty Himalaya chain boulder-stones are distributed in vast quantities all over the country; sometimes they are found rounded and piled in heaps of immense height, on extensive horizontal beds of limestone, as if swept there by the action of water, shells of various kinds, especially fresh-water clams, cockles, and periwinkles, are in abundance; of the latter, masses have been found several hundred feet above the level of Lake Ontario. In the vicinity of large rivers, and even in many instances remote from them, undulating rocks are seen, exactly similar to those found in the beds of rapids where the channels are waved. The wavy rocks are termed provincially, ice shoves. On the shores of the Gulf of St. Lawrence, detached boulderstones of an enormous size (20 tons weight) are met with; they differ from those found inland, are very hard, of a blackish-grey colour, not veined, but with pointed particles of a brilliant appearance: how they came there it is difficult to judge, the rocks of the shores being composed of a slaty limestone.

The fossil organic remains are numerous and consist of productæ, terebratulæ, orthoceratites, trilobites, and encrinites; these are found on the surface or upper strata, but rarely below. These records of a former animal existence, distinct from any known in the present day, are intimately blended with the limestone in which they are entcmbed.

That the whole country has been subected to some violent convulsion, subsequent to the Deluge, would appear from the singular contortions of the rivers, and the mmense chasms in the mountains; from the indications of volcanic eruptions at St. Paul's Bay and north of Quebec; and also from the vast masses of alluvial rocks met The American continent generally, and the configuration and geology of Western Canada in particular, appear to me to afford indications of having but recently emerged from the ocean, and that at no very distant period of time (comparatively speaking), instead of a continent, there was only a succession of islands and rocks.

So far as we know, the geological structure of Canada exhibits a granitic region, accompanied with calcareous rocks of a soft texture, and in horizontal strata. The prevailing rocks in the Alleghany mountains are granite, which is found generally in vast strata, and sometimes in boulders between the mountains and the shore, graywacke and clay-slate also occur with limestone; various other rocks, usually detached, present The lower islands of the St. themselves Lawrence are mere inequalities of the vast granitic region which occasionally emerges above the level of the river; the Kamouraska islands, and the Penguins in particular, exhibit this appearance; and in Kamouraska and St Anne's parishes, large masses of primitive granite rise in sharp conical hills (one is 500 feet high), in some places with smooth sides and scarcely a fissure, in others full of fissures, and clothed with pine-trees which have taken root in them; the whole country appearing as if the St. Lawrence had at a former period entirely covered the land. At St. Roche, the post-road leads for more than a mile under a perpendicular ridge of granite 300 feet high. The banks of the St. Lawrence are in several places composed of a schistous substance in a decaying or mouldering condition, but still in every quarter granite is found in strata more or less inclined to the horizon, but never

have been obtained, including a great variety of cornelian, and agate, opal, and pasper. indications of coal have also been traced. The limestone stone formation extends, according to a recent calculation, over 30,000 square miles; the dip is moderate, and the strata of limestone generally undis-

The N. shore of the St. Lawrence from Quebec to its mouth, and round the coast of Labrador, offers a rich field for the mineralogist; much of the coast bordering on the gulf being primitive, or of the earlier According to some observers, the N. coast below the St Lawrence exhibits trap-rocks, clay-slate, various detached rocks, The immediate bed of the fall of experienced in a vessel at sea. Montmorence is a horizontal shelf of dark and in many parts there exist deep fissures to have been split by the action of fire, or some volcanic shock. The Indians say these rents occasionally extend several miles in length, about a foot in breadth, and from 40 dangerous pitfalls, being hidden from view by creeping shrubs.

These appearances seem to confirm the following graphic, but scarcely credible account of a terrific earthquake, contained in an old manuscript preserved in the Jesuits' College at Quebec:—"On the 5th of Febru-face of the earth, others were completely ary, 1663, about half-past five o'clock in the overturned, their branches buried in the evening, a great rushing noise was heard throughout the whole extent of Canada. This noise caused the people to run out of their houses into the streets, as if their habitations had been on fire; but instead of from the openings, in many parts, there flames or smoke, they were surprised to see the walls reeling backwards and forwards, and the stones moving, as if they were detached from each other. The bells sounded by the repeated shocks. The roofs of the buildings bent down, first on one side and then on the other. The tumbers, rafters, and planks cracked. The earth trembled violently, and caused the stakes of the pali- Lawrence appeared entirely white, as far

parallel with it. In the Gaspé district sades and palings to dance, in a manner numerous and beautiful specimens of quartz that would have been incredible, had we not actually seen it many places. It was at this moment every one ran out of doors. Then were to be seen animals flying in every direction; children crying and screaming in the streets; men and women, seized with affright, stood horror-struck with the dreadful scene before them, unable to move, and ignorant where to fly for refuge from the tottering walls and trembling earth, which threatened every instant to crush them to death, or sink them into a profound or immeasurable abyss. Some threw themselves on their knees in the snow, crossing their breasts and calling on their saints to relieve them from the dangers with which they were surrounded. Others passed the rest of and granite occasionally, the latter being this dreadful night in prayer; for the earthsupposed to prevail in the interior of the quake ceased not, but continued at short country, forming the base of the Labrador intervals, with a certain undulating impulse, mountains and the coast of Quebec. Cape resembling the waves of the ocean; and the Tourment (30 miles from Quebec) is a round, same qualmish sensations, or sickness at the massive, granite mountain about 1000 feet stomach was felt during the shocks as is

"The violence of the earthquake was grey limestone, of the kind called primitive greatest in the forests, where it appeared as or crystalline. Except in the bogs or marshes, if there was a battle raging between the rocks obtrude on the surface in all quarters, trees, for not only their branches were destroyed, but even their trunks are said to from 6 inches to 2 feet wide, which appear have been detached from their places, and dashed against each other with inconceivable violence and confusion—so much so, that the Indians, in their figurative manner of speaking, declared that all the forests were to 50 feet in depth: and frequently form drunk. The war also seemed to be carried on between the mountains, some of which were torn from their beds and thrown upon others, leaving immense chasms in the places from whence they had issued, and the very trees with which they were covered sunk down, leaving only their tops above the surearth, and the roots only remained above ground. During this general wreck of nature, the ice, upwards of six feet thick, was rent and thrown up in large pieces, and issued thick clouds of smoke, or fountains of dirt and sand, which spouted up to a very considerable height. The springs were either choaked up, or impregnated with sulphurmany rivers were totally lost; others were diverted from their course, and their waters entirely corrupted. Some of them became yellow, others red, and the great river of St.

down as Tadoussac. phenomenon must astonish those who know ever existed before: mountains were overthe size of the river, and the immense body thrown, swallowed up by the gaping, or of water in various parts, which must have precipitated into adjacent rivers, leaving in required a great abundance of matter to their places frightful chasms or level plains; whiten it. They write from Montreal that falls and rapids were changed into gentle during the earthquake, they plainly saw the streams, and gentle streams into falls and stakes of the picketing, or palisades, jump rapids. Rivers in many parts of the country up as if they had been dancing; and that of sought other beds, or totally disappeared. two doors in the same room, one opened and The earth and the mountains were entirely the other shut of their own accord; that the split and rent in innumerable places, crechimneys and tops of the houses bent like ating chasms and precipices whose depths branches of trees agitated with the wind; that when they went to walk they felt the earth following them, and rising at every step they took, sometimes sticking against the soles of their feet and other things, in a very forcible and surprising manner

"From Three Rivers they write, that the first shock was the most violent, and commenced with a noise resembling thunder. The houses were agitated in the same manner as the tops of trees during a tempest. with a noise as if fire was crackling in the garrets. The shock lasted half an hour or rather better, though its greatest force was properly not more than a quarter of an hour, and we believe there was not a single shock which did not cause the earth to open either

more or less.

though this earthquake continued almost quarter of a league in circumference, situwithout intermission, yet it was not always ated on the shore of the St. Lawrence, was of an equal violence. Sometimes it was like precipitated into the river, but as if it had the pitching of a large vessel which dragged only made a plunge, it rose from the bottom, heavily at her anchors; and it was this mo- and became a small island, forming with the tion which occasioned many to have a giddi- shore a convenient harbour, well sheltered ness in their heads, and qualmishness at from all winds. their stomachs. At other times the motion towards Point Alouettes, an entire forest of was hurned and irregular, creating sudden considerable extent was loosened from the jerks, some of which were extremely violent, main bank, and slid into the river St. Lawbut the most common was a slight tremulous rence, where the trees took fresh root. motion, which occurred frequently with There are three circumstances, however, tants and Indians, who were eye-witnesses earthquake particularly remarkable: the river of Trois Rivières, about eighteen miles February to August, that is to say, more from Quebec, the hills which bordered the than six months almost without interriver on either side, and which were of a mission! It is true, the shocks were not prodigious height, were torn from their always equally violent. In several places, as colour of the great river St. Lawrence, into a time with much violence. which that of Trois Rivières disembogues itself. In the course of this violent convul- extent of this earthquake, which we believe

This extraordinary sion of nature, lakes appeared where none have never yet been ascertained. devastation was also occasioned in the woods. that more than a thousand acres in our neighbourhood were completely overturned: and where but a short time before nothing met the eye but one immense forest of trees, now were to be seen extensive cleared lands, apparently cut up by the plough.

"At Tadoussac (about 150 miles below Quebec on the north side) the effect of the earthquake was not less violent than in other places; and such a heavy shower of volcanic ashes fell in that neighbourhood. particularly in the river St. Lawrence, that the waters were as violently agitated as during a tempest. (The Indians say that a vast volcano exists in Labrador) Near St. Paul's Bay (about 50 miles below Quebec "As for the rest, we have remarked, that on the north side), a mountain about a Lower down the river. little noise. Many of the French inhabi- which have rendered this extraordinary to the scene, state, that a great way up the first is its duration, it having continued from foundations, and plunged into the river, towards the mountains behind Quebec, the causing it to change its course, and spread thundering noise and trembling motion conitself over a large tract of land recently tinued successively for a considerable time. cleared; the broken earth mixed with the In others, as towards Tadoussac, the shock waters, and for several months changed the continued generally for two or three days at

"The second circumstance relates to the

France, for we learn that it was felt from wheat lands in the seigneuries. I' Isle Persée and Gaspé, which are situated extended more than 600 miles in length, and about 300 in breadth. Hence, 180,000 same day, and at the same moment.

traordinary protection of Divine Providence, which has been extended to us and our habitations; for we have seen near us the large openings and chasms which the earthor hideously convulsed, without our losing a hair of their heads touched"

port on the rocks along the Ottawa, dated phuric acid is the predominant ingredient. April, 1848, says, that the limestone there in a bed of coarse crystalline limestone, found 12 inches in length and 91 in circumference. The apatite is translucent, of a delicate celandine green colour; the angles of the crystals are invariably rounded, and the terminations rarely distinct-looking, indeed, as if they had been half fused after their formation. lime in the shape of guano and bone powder with wedges into rectangular blocks. is now fully recognized; several plants,

was universal throughout the whole of New of a fertilizing product for the exhausted

Mineral corundum - the emery of the at the mouth of the St. Lawrence, to beyond East Indies, so useful for polishing gems-Montreal, as also in New England, Acadia, is found in the neighbourhood of the Ottawa, and other places more remote. As far as it as is also heavy spar, or sulphate of barytes has come to our knowledge, this earthquake in gneiss, either massive or in thin bladed crystals. This is very extensively used in Europe and America to mix with white square miles of land were convulsed in the lead, and also as a paint, under the name of permanent white. The crude maternal is "The third circumstance, which appears worth from 8 to 10 dollars per ton. Vathe most remarkable of all, regards the ex- rous other semi-metallic products, and also copper, are found in this locality.

There are several "saline," "sulphuric," "sour," "gas," and warm and cold springs in the province. The Charlotteville sulquake occasioned, and the prodigious extent phur spring yields 26.8 cubic inches of of country which has been either totally lost sulphuretted hydrogen gas to the gallon of water, while the strongest of the celebrated either man, woman, or child, or even having Harrowgate springs yields but 14 cubic inches. The "Tuscarora," or "sour" spring, is situated in the county Wentworth, Canada The extensive Ottawa region has been West, 9 miles S. of Brantford, and 3 imperfectly explored. Mr T S Hunt, miles S. of the bank of the Grand river. chemist and mineralogist to the Provincial The water is of a very unusual character, and Geological Survey, in an excellent re- it is acid, sulphureous, and emits gas; sul-

The various mineralogical substances found is invariably highly crystalline, and some- in Eastern Canada, and capable of application times very coarse-grained in its structure, to useful purposes, are the magnetic and at other times its texture is very fine, form- specular oxydes of iron, bog iron ore, and ing what is termed saccharoidal limestone; iron ochre, chromic iron, wad or bog manand occasionally the grain is so fine, as to ganese ore, copper ore, gold, granite, and yield a marble fit for the artist. The crys- other descriptions of stone, suited for buildtalline limestones of the Ottawa underhe ing, for mill and whetstones, flagstones, uncomformably the silurian rocks of the roofing slates, marble serpentine, soapstones, country, and are interstratified with signific magnesite, dolomite, and common limegness. Near Perth, Dr. Wilson, who has stone, brick and potter's clay, and shellmarl. enriched the mineralogical knowledge of The only gold yet found was obtained in the the province, has discovered a locality of vicinity of Sherbrooke; but the same general apatite, or phosphate of lime. It is found geological formation being traceable from Gaspé, through the United States to Geortinged of a flesh-red, and often embracing gia, the Carolinas, and Virginia, and even grains of pyroxene. The crystals are from to Mexico,—it is not improbable that this half to one inch diameter. One crystal was precious metal may yet be found extensively ın Eastern Canada.

> There are mexhaustible quantities of fine granite in various localities, it presents an even mixture of translucent white quartz and opaque white feldspar, with a brownishblack mica, sparingly, but equally dissem-The value of phosphate of inated: it is capable of being readily split

Shellmarl, so valuable for manure, is especially wheat, largely extract it from the found in different places: on the land of soil, and thus impoverish the land. Canada Mr. Martin, to the east of Stanstead Plains, possesses in it an almost inexhaustible supply there is a bed of comminuted fresh water

shells, of 50 to 100 acres in extent. In another place the fresh water shells have a depth of several feet, and rest on a deposit of marine shells of the tertiary age. soapstone, which is the same material as French chalk, mixed with oil, is now used for house painting. A decomposed talcose slate forms a white-wash instead of lime, and produces a dirty white, or light ash-grey Soapstone is also used as a lining for ovens, furnaces, and fireplaces; and from its long retention of heat, a piece of soapstone heated in the fire, and wrapped in a blanket, is found useful in long Canadian winter journeys.

A bed of the silicious rock termed jasper, 6 feet in thickness, exists at Sherbrooke; it is cut into boxes, chimney ornaments, knife handles, &c. Large blocks of serpentine, resembling the celebrated verd

antique, are found near Orford.

great lakes has been investigated by several distinguished English and American ex-

Lake Superior.—The whole S. coast of this vast inland sea is stated by Mr. Schoolcraft, an American gentleman who formed part of a government expedition from New York, to be a secondary sandstone, through which the granite on which it rests, occasionally appears; chalcedony, cornelian, jasper, opal, agate, sardonyx, zeolith, and serpentine (all silicious except the last two), with iron, lead, and copper, are found im-The sand hills W of the bedded in it. Grand Marais, present to the lake, for 9 miles, a steep acclivity 300 feet high, composed of light yellow silicious sand, in 3 layers, 150, 80, and 70 feet thick; the lastmentioned uppermost, and like the lowest, pure, while the middle bed has many pebbles of granite, limestone, hornblende, and quartz By the subsidence of the waters of Lakes Superior and Huron, occasioned, Mr Lyell thinks, by the partial destruction of their barriers at some unknown period, beds of sand, 150 feet thick, are exposed, below which are seen beds of clay, enclosing shells belonging to fish of the very species which now inhabit the lakes.

Dr. Bigsby, who minutely examined Lake Superior, observed, that a red sandstone for the most part horizontal, predominates on the S. shore, resting in places on granite Amygdaloid occupies a very large tract in the N. stretching from Cape Verd to the interposed beds of greenstone; and of the Grand Portage, profusely intermingled with fossiliferous groups following these, six for-

argillaceous and other porphyries, sienite. trappose-greenstone, sandstone, and conlomerates. Trappose-greenstone is the revailing rock from Thunder Mountain westward, and gives rise to the pilastered precipices in the vicinity of Fort William. Part of the N. and E. shore is the seat of older formations, viz., sienite, stratified greenstone, more or less chloritic, and alternating with vast beds of granite, the general direction E, with a perpendicular

Great quantities of the older shell limestone are found strewn in rolled masses on the beach, from Point Marmoaze to Grand Portage: its organic remains are trilobites. orthoceratites, encrinites, productæ, madrepores, terebratulæ, &c. At Michipicoton Bay was found a loose mass of pitchstone porphyry, the opposite angle being trappose.

Lake Huron —The almost uniformly level The geology of the country around the shores of Lake Huron present few objects of interest to the geologist: secondary limestone, filled with the usual reliquiæ, constitutes the great mass of structure along the coast. Here and there are found detached blocks of granite, and other primitive rocks, the only simple minerals found by Mr Schoolcraft were pieces of chalcedony in one place, and in another, crystals of staurolite. Around Saganaw Bay the primitive formation appears to approach nearcr the surface; the secondary limestone then gives place to sandstone, which disintegrates, and forms sand banks and beaches, as on the sea shore.

> With the exception of spots of sand opposite the mouth of Spanish and other rivers, the shore N of Lake Huron is composed of naked rocks; but on the SE, and at the naval station of Penetanguishine, there are several undulating alluvial platforms some hundred feet high, rounded into knolls, intersected by water-courses, and extending to the N W shores of Lake Simcoe, and, in fact, to Lakes Erie and Ontario.

> Mr A Murray, in his elaborate geological survey of the shores of Lake Huron, says, that the older groups he observed, consist, firstly, of a metamorphic series, composed of granitic and sienitic rocks, in the forms of gness, mica slate, and hornblende slate; and, secondly, of a stratified series, composed of quartz rock, or sandstones, or conglomerates, shales, and limestones, with

group, 560 feet; total, 1,273 feet. limestone is 228 feet deep.

The Niagara hmestones, as they are average thickness of 5 feet. Bivalve shells ally

occasionally.

Lakes Huron, Michigan, and Superior, day, and it would appear (as has been pre- for ages. viously remarked) that the subsidence of their waters has not been effected by slow granite. while the waters were still of immense been at one time in a state of fluidity. height and extent

of St Clair affords the first indication of the to the elder rock on which it reposes, and change in the geological formation, observed by which it would appear to have been up-as we proceed through the lakes, pebbles of raised, subsequently to the solidification of

mations are met with, which, in the New are seen on the edge of the water, washed York nomenclature, come under the follow- out from below the alluvion of the banks. ing designations:-1. Potsdam sandstone, According to the editor of an able American 40 feet; 2. Trenton hmestone, 320 feet; 3. Review, this is probably very near the limits Utica slates, 50 feet; 4. Loraine shales, where the materials of the primitive forma-200 feet; 5. Medina sandstone, 103 feet; tion show themselves beneath the secondary, 6. Niagara limestones, including the Clinton nothing of them being seen on the American At side of Lake Erie; but around St. Clair, Cabot's head the thick bedded coralline masses of granite, mica slate, and quartz,

are found in abundance.

Lake Erie.—The chasm, at Niagara Falls, termed, extend over a large part of the south- affords a clear indication of the geology of ern portion of Drummond Island, and nearly the country. The different strata are—first. the whole of Cockburn Island—eastward limestone—next, fragile slate—and lastly, through the Grand Manatoulin. They cap sandstone. The uppermost and lowest of the cliffs at Cabot's head, and can be traced these compose the great secondary formathence to the southward. The fossils met tion of a part of Canada, and nearly the with peculiar to the Niagara limestone are whole of the United States, occupying the chiefly corals, some of the most massive entire basin of the Mississippi, and exbeds appear to be entirely composed of tending from it between the lakes and the coral of the most elaborate structure, one Alleghany ridge of mountains, as far eastfallen mass was observed at Cabot's head, ward as the Mohawk, between which the which appeared to be all coral, measuring slate is often interposed, as at Niagara, and 10 yards square on the surface, with an throughout the State of New York gener-At Niagara, the stratum of slate is are met with abundantly, and univalves nearly 40 feet thick, and almost as fragile as shale, crumbling so much as to sink the superincumbent limestone; and thus verihave evidently been at one time consider- fying to some extent, the opinion that a ably higher than they are at the present retrocession of the falls has been going on

Lake Ontario.—Limestone, resting on The rocks about Kingston are drainage, but by the repeated destruction of usually a limestone of very compact structheir barriers: indeed, these three lakes have ture, and light blueish-grey colour - a evidently at some remote period formed a fracture often approaching the conchoidal, single body of water, as is evinced by their a slight degree of translucency on a thin comparatively low dividing ridge, by the edge; and after percussion, emitting the existence, in Batchewine Bay, of numerous odour of flint, rather than that of bitumen. rolled masses which are in situ in the N.W. The lowermost limestones are in general parts of Lake Huron, and, among many more silicious than those above them; and other indications, by the very large boulders so frequently is this the case, that, in some of the Huggewong granite, and the green-places, a conglomerated character is given stone of Michipicoton, strewn in company to the rock by the intrusion of pieces of with rocks of Lake Huron, over the Portage quartz or hornstone. It is worthy of reof St. Mary's; their original situation being mark, that both angular and rounded masses at least 100 miles N from where they are of felspar rock, which usually underlies placed at present. Great alluvial beds of limestone, (or, if absent, is supplied by a fresh water shells are found in the E. of substratum in which hornblende predomi-Lake Huron, whose appearance argues them nates) are imbedded and isolated in the to be of post-diluvian formation, effected limestone, demonstrating the latter to have

The limestone formation is stratified hori-Lake St Clair.—The entrance of the Lake zontally, its dip being greatest when nearest gramte, hornblende rock, and silicious sand its strata; the thickness of which like the depth of the soil, varies from a few feet to a grounds in the world. So great is the ferfew inches. Shale occurs as amongst most tility of the soil in Canada, that 50 bushels limestones; and, in some places so intimately blended with the latter, as to cause it to fall on a farm, where the stumps of trees, which to pieces on exposure to the atmosphere. The minerals as yet noticed, in this formation, are chert, or hornstone, basanite, chlorite, calcareous spar, barytes, sulphate of York, in Upper Canada, 100 bushels of wheat of zinc. Pure gramte is seldom or never found.

THE Soils of Upper or Western Canada are various; that which predominates, is comproportions of marl intermixed, this compound soil prevails principally in the fertile Ontario it is more clayey, and extremely of blue, interspersed with grains of white It is used for building, and is of cold clay manufactured into excellent lime by an easy The limestone of Niagara differs from the foregoing in colour and quality, being grey, and not so easily calcined into lime. The Newcastle district lying between the lar to that of Quebec. upper section of the Ottawa and the St Lawrence, is a rich black mould, which also prevails throughout the East Riding of York, and on the banks of the Ouse, or view. Grand River, and the Thames.

vial nature is clearly demonstrated by the tained iron felspar, hornblende, native iron scarcity of stones for common use, which is ore, granite (white, grey and red), and a kind also the case in some townships bordering of stone very common in Canada, called lime-Lakes Erie, St. Clair, and the Detroit. A stone granite, it being limestone that callight sandy soil predominates round the cines to powder, yet when fractured resemhead of Lake Ontario.

The quantity of good soil in Canada, plumbago of the finest quality. The iron compared with the extent of the country, mines of St. Maurice have long been celeis equal to that of any part of the globe; brated, and the metal prepared with wood is millions of the human race. The best lands dish. Canada is rich in copper, lead, tin, found—such as oak, maple, beech, elm, zinc ore, &c. black-walnut, &c., though bass-wood when

of wheat per acre are frequently produced probably occupy an eighth of the surface, have not been eradicated-some instances of 60 bushels per acre occur, and near strontian, sulphuret of iron, and sulphuret were obtained from a single acre! In some districts wheat has been raised successively on the same ground for 20 years without manure.

The soil on the promontory where Quebec posed of brown clay and loam, with different stands, is light and sandy in some parts, in others it is a mixture of loam and clay; beneath the soil a black, silicious slaty rock country between the St. Lawrence and is everywhere met with, resting generally Ottawa; towards the N. shore of Lake on a bed of gramte. Above Richelieu Rapids, where the mountains commence The substratum throughout retreating to the S and N, the greater part these districts is a bed of horizontal lime- of the soil of the low lands is apparstone, which in some places rises to the ently of alluvial formation, consisting of surface. The colour is of different shades a light and loose blackish earth, ten or twelve inches in depth, lying on a stratum

The soil of Montreal island is generally process of calcination; and greatly enriches alluvial, consisting in many places of light and invigorates the soil when sprinkled over sand and loam, and in others of a stiff clay, on a horizontal stratum of limestone with animal remains: the substratum granite being intersected by black slaty rock, simi

Along the Ottawa there is a great extent of alluvial soil, and many new districts of fertile land are constantly brought into

MINERALOGY.—Among the mountains to At Toronto the soil is fertile, and its allu- the W. of the St. Lawrence, have been obbles gramte: marble is in abundance, and and there yet remains location for several considered equal if not superior to Sweare those on which the hardest timber is cobalt, titanium, molybdenum, manganese,

Copper abounds in various parts of the of luxuriant growth, and pine when large, country; some large specimens have been clean, and tall, also indicate good land. found in the angle between Lakes Superior Many of the cedar swamps, where the cedars and Michigan. At the Coppermine river are not stunted, and mingled with ash of a (Ontanagon 300 miles from the Sault de large growth, contain a very rich soil, and Ste. Marie), this metal, in a pure and malare calculated to form the finest hemp leable state, hes in connexion with a body

masses and grains throughout the substance able parts of the province. of the rock. Henry and others speak of a cubic feet, and containing, of metallic matter, about 2,200 lbs; but there were many price. marks of chisels and axes upon it, as if a which have been long exposed to the atmosphere, is of metallic brilliancy.

provincial beds may exist of equal conse- this place. quence with those of New York State.

skirts the shore of the former lake through Marmora, and titanium at Lake Superior. Niagara county, passes by Cayuga, York, and Paris, near Galt, on the Grand River, and turns northward towards Cabot's head on Lake Huron. The thickness of this solid bed of water lime, 30 feet thick. The gypsum, it appears, is deposited in deto the gypsum, and indeed sometimes inter- are very valuable. mixed with it, are vast quantities of water

of serpentine rock, which it almost com- to become, in time, from the mineral conpletely overlays: it is also disseminated in tents of the subsoil, one of the most valu-

An interesting discovery has been made rock of pure copper, from which the former of the existence of lithographic stone at cut off an 100 lbs. weight. Mr. Schoolcraft Rama, on Lake Simcoe. It is of the best examined the remainder of the mass in quality, and the supply is very large, which 1820, and found it of irregular shape—in is the more satisfactory, inasmuch as this its greatest length 3 feet 8 inches, greatest stone is only to be found in one other place breadth 3 feet 4 inches, making about 11 in the world-Solenhofen on the Danubeand has hitherto commanded a monopoly

I have already adverted to the native copgreat deal had been carried off. The sur- per found on the banks of Lake Superior, face of the block, unlike that of most metals on the Coppermine river; iron is abundant in various parts of Western Canada, particularly at Charlotteville, about eight miles The beautiful spar, peculiar to Labrador, from Lake Erie; it is of that description whence it derives its name, has long been which is denominated shot ore, a medium celebrated; some specimens are of an ultra- between what is called mountain and bog marine, or brilliant sky-blue colour, others ore; the metal made is of a superior quality. of a greenish-yellow, of a red, and of a fine The Marmora Iron works, about 32 miles pearly grey tint. Marble of excellent quality north of the Bay of Quinté, on the river and of different hues, white, green, and va- Trent, which are situated on an extensive riegated, is found in several parts of the white rocky flat, bare of stones, and were country, and limestone, so useful to the apparently in former times the bottom of a agriculturist, almost everywhere abounds. river, exhibit like many other parts of Ca-According to the geological survey in nada, different ridges and water courses; the 1847-48, it appears that the quantity of iron iron ore is extraordinarily rich, some speciin the province is likely to prove very con- mens yielding 92 per cent.; it is found on siderable. Considering the valuable deposits the surface, requiring only to be raised of this mineral already known in Marmora, the requisite smelting materials of limestone Madoc, Bedford, Hull, &c, and the deflec- and pine fuel abound in the vicinity. tion of the magnet over regions of great ex- Magnetic oxyde, red oxyde, mountain, or tent, it is not unreasonable to suppose that lake ore, and other varieties are met with at Black lead is found also at Marmora, on the shores of the Gannanoqui The deposit of gypsiferous shale, so valu- lake, and in the eastern division of Western able for its gypsum salt, hydraulic lime, Canada, where it is said some silver mines occupies nearly all that neck of land which are known to the Indians; small specimens separates Lake Ontario from Lake Erie, of a metal like silver have been found at

Mr. Murray is of opinion that the N. shore of Lake Huron is a region of great mineral importance. Although the whole district is covered by a dense forest, still in deposit is estimated at 300 feet. About its original wild condition several copper 31 miles below Cayuga, there is a hard lodes have been discovered—some of decided value, others of considerable promise. The "Bruce mines," now being worked, on the tached masses, almost invariably assuming main shore between French and Palladeau more or less of a conical shape. Adjacent islands, 10 miles west of Thessalon Point,

Two mineral springs flow at Scarborough, lime. The beds worked in York and Paris 15 miles E. of Toronto. Above the Niagara are extensive, and produce excellent gyp- Falls is a phenomenon, termed the Burning sum. This part of Canada, it is asserted, Spring, the water of which is in a constant extending from Galt to Cayuga cannot fail state of ebullition, black, warm, and emit-

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ting a portion of sulphuretted hydrogen more striking when the two waters are in gas sufficient to light a mill, which stood at contact and in large quantities. the place, the gas yielding, when concentrated in a tube, a light and beautiful flame; treal, in July, 1845, Mr. Derottermund obin winter the water loses its burning properties. At the head of Lake Ontario there are several fountains, strongly impregnated with sulphur, the latter is found in substance collected into solid lumps of brimstone. The Indians speak of volcanoes in several parts of the province, particularly towards the Chippewa hunting-grounds.

Salt hcks (springs) are numerous; one at Salt Fleet yielded a barrel of salt a day. Near the Moravian villages, on the river Thames, there are springs of petreolum, and a bituminous substance appears on several of the waters in the north-west country on the above named river there is a quarry of soft free stone, of a dark colour, which the Indians hew out with their axes it will not endure the heat of fire, but is useful for Near the Gannanogui Lake is found a soft-soap stone, with a smooth oily surface. Gypsum is obtained in large quanor Ouse river. Potter's and pipe clay are frequent, and yellow ochre is occasionally met with.

Mr. Derottermund, chemist to the government geological survey of Canada, says that the waters of the St. Lawrence which flow past Montreal, are of two kinds, the one coasting along the left side of the river ascertain; for the greater density of the appertains to the Ottawa, and is of a brown colour, the other, flowing opposite to the may be a communication with the ocean. city, comes from the great lakes and is of a fine blue colour. These waters run together rous regions of this vast country necessarily for several leagues without intermingling, as vary, according to their distance from the may be observed in the Lake of Geneva, equator, and the contiguity of mountains where the Rhône preserves in its passage through the lake its peculiar blue colour The waters of both the St Lawrence and sequent peculiar elasticity of animal fibre, the Ottawa, are very pure, differing from indicate the salubrity of British North distilled water only by 002 or 003 The America In Eastern Canada, the greater different specific gravity of the two waters severity of the winter, is owing partly to its may possibly be the cause of their not in- latitudinal position, and partly to the termingling; both contain chlorides, sul- north eastern range of lofty mountains. In phates, and carbonates, with bases of lime the more northern part of the province, and of magnesia, but the St. Lawrence the snow commences in November, but water holds in solution carbonate of lime, seldom lies many days on the ground be-and is not therefore so well adapted for culi- fore December, when the whole country is nary purposes. The brown colour of the covered by it for several feet deep, nor does Ottawa water may be owing to the presence it entirely disappear until the beginning of of a very minute quantity of marl or loam, or May The frost during this period is genethe two rivers being impregnated differently rally intense, with N.W. winds and clear with saline matter, the rays of light are re- atmosphere, during the greater part of the flected differently, and the effect is the winter, but on a change of wind to the

Water taken from the river opposite Montained the following comparison —

	St. Lawrence.	Ottawa.
	grs	grs
Sulphate of Magnesia	. 0 62	0 69
Chloride of Calcium	. 038	0 60
arbonate of Magnesia	. 0.27	1 07
a bonate of Lime		0 017
Silica	0.31	0 50
	1.59	2.877

There is a great difference observable in the transparence and purity of the waters of the great lakes. Those of the Ontario, Erie, and the southern parts of Michigan, are like other lake waters; but Huron, and the northern part of Lake Michigan, and it is said also Superior, contain waters of a degree of purity and clearness such as is seldom to be found elsewhere. The Huron waters are so transparent that the rays of the sun are said to pass through them as through the cloudtities and of excellent quality on the Grand, less atmosphere, without meeting with any solid matter in suspense to obstruct or draw Hence the water on the off their caloric. surface, and that drawn from a depth of 200 fathoms, has been found of precisely the same temperature, viz. 56°. Whether the water in the lowest depths of lakes Superior and Ontario be salt or fresh, we cannot former may keep it always below, or there

> CLIMATE.—The temperature of the numeand forests, but generally speaking the clear blue sky, the absence of fogs, and the con

southward and eastward, the weather becomes overcast, the atmosphere damp, with and March, from 32° to 25° below zero, Fah In 1790, mercury froze at Quebec. The temperature is often 60° Fah. below the freezing point-20° is the average The extreme cold may be imagined by the effect of the following experiment, bomb-shells were nearly filled with water, an iron plug was then driven into the fuse-hole by a sledgehammer, when the water froze, the plug was forced out with a loud report, and was thrown with great velocity to a considerable distance, a plug 2½ oz. weight was thrown 415 yards, the elevation of the fuse axis being an angle of 45. When a plug with notched springs, permitting its expansion within the shell, was used, the shell nevertheless burst. Rocks, particularly those of the calcareous, schistous, and sand-stone order, are often rent as if with gunpowder, by the expansive force of intense frost. During the cold frosty nights, the woods creak as if 10,000 bucherons were at work among them

As winter advances, one snow storm succeeds another tall the face of the whole is covered, the trees alone remaining visible, and the mighty river St. Lawrence is ar- very few inches rested in its course The feathered tribes take flight, even the hardy crow retreats, and few quadrupeds are to be seen some, like the bear, remaining in a torpid state, and others, like the hare, change their colour to pure white

Instead of the pleasing variety which a Canadian summer presents, enabling the traveller to trace the course of noble rivers -to contemplate the fall of mighty cataracts or the busy hum of commerce in the passing vessels on the moving waters—the fine tints of the forests, and the auburn tinge of snow, the average cepth of which, unless where snow-storms or drifts have accumulated, is about 30 inches.

he owner, sometimes like that of a phaeton, gig, chariot, or family coach: the body is occasional dense fogs, and falls of snow, ac- placed on what are called runners, which companied by a considerable rise in the resemble in form the irons of a pair of skates. thermometer, which usually ranges, during rising up in front in the same manner, and the months of December, January, February, answering somewhat the same purpose The high runners are about eighteen inches ong: the carriole is generally elevated about twelve inches above the snow, over which when level it glides with great ease, without sinking deep but when cahots (from cahoter. to solt, a word denoting narrow ridges with deep furrows), are formed in the snow, the motion is like rowing in a boat against a head sea, producing a sensation in one unaccustomed to it, something like sea-sickness The carriole is often mounted with silver, and ornamented with expensive furs traineaux, burline, cutter, and sleigh, are all varieties of the carriole

The dress of the Canadian now undergoes a complete change, the hat and bonnetrouge are thrown aside, and fur caps, fur loaks, fur gloves, are put in requisition, with worsted hose over as well as under the boots; those who take exercise on foot, use snow shoes, or mocassins, which are made of a kind of network, fixed on a frame, and shaped like a boy's paper kite, about 2 feet long, and 18 inches broad, these cover so country is changed, every particle of ground much of the surface that even when the snow is softest the wearer sinks in it but a

> While the severity of the season is thus guarded against by the Canadians when out of doors, their habitations are also secured against the destructive power of intense The walls of the houses are usually plastered on the outside, to preserve the stones from moisture, which during extreme frost, renders them hable to split; and the apartments are heated with stoves, which keep the temperature at a higher and more uniform rate than is done by our English fire-places.

And here it may be observed, that the of the ripening corn — the whistle of the result of intense cold (such as is felt in plough-boy, and the lowing of the tended Canada is, if not guarded against, similar kine-nothing is now to be seen but one to that of intense heat, with this difference, unvaried surface; no rivers, no ships, no that it is easier to guard against the effects animals-all one uniform, unbroken plain of the one in North America than of the other in India. A cold iron during a Canadian winter, when tightly grasped, blisters and burns nearly in the same manner as From Quebec to Montreal, the St. Law- a hot iron. The principle in both instances rence ceases to be navigable, and serves as a is alike-in the former, the rapidity with road for sleighs and carrioles. The carriole which the caloric or vital heat of the body varies in shape according to the fancy of passes from the hand into the cold iron, destroys the continuous and organic struc- surely fatal; the sufferer passing, impassible passes so rapidly from the hot iron into the hand, as to produce the same effect: heat, in both cases, being the cause; its passing into the body from the iron, or into the iron from the body, being equally injurious. For a similar reason the incautious traveller, in Canada, is burnt in the face by a very cold wind, and experiences the same sensation as if exposed to the blast of an eastern Milton well describes the effects of extreme cold in the following lines —

"Beyond this flood, a frozen continent Lies, dark and wild, beat with perpetual storms Of whirlwind and dire hail, which, on firm land Thaws not, but gathers heap, and ruin seems Of ancient pile all else deep snow and ice, A gulf profound as that Serbonian bog Betwixt Damiata and Mount Casius old, Where armies whole have sunk the parching air Burns frore, (frozen) and cold performs the effect PARADISE LOST, Book in

We also find in Virgil Georg I. 93— - Boreæ penetrabile frigus adurat.

Dogs become mad at Quebec in December and January when the cold is greatest, extreme cold and extreme heat tending equally to the propagation of hydrophobia The term frost-bitten denotes the effect produced by cold, accompanied by a sharp biting wind In such weather persons are hable to have the nose, toes, fingers, ears, or those parts where the circulation of the blood is scanty and slow, frost-bitten, without being made aware of the change by their own sensations, and it not unfrequently happens that they are first informed of their misfortune by a passing stranger, who observes the nose, for instance, becoming quite white, while the rest of the face is very red $_{
m In}$ such a predicament, it is at first startling to see an utter stranger running up to you with a handful of snow, calling out "your nose, sir. your nose is frost-bitten," and without further ceremony, rubbing without mercy at your proboscis. If snow be well rubbed in in due time, there is a chance of saving the most prominent feature of the face. if not, or if heat be applied, not only is the skin destroyed, but the nose, and inmates after them. Fortunately, the weak a great part of the adjacent surface, are irrecoverably lost.

The inevitable result of the long-continued action of snow or cold on the animal the strong ice, seize the ropes, which, with a frame is death, and that of the most running noose, are placed ready for such an pleasing kind,—at first a pleasing sensation emergency on every sleigh horse's neck, of anguor 18 felt, to this succeeds an oppres- and, by sheer pulling, the animal is partially sive drowsiness which, if indulged in, is strangled in order to save his life; for if the

ture of the part, in the latter, the caloric and unconscious, from the slumber of life into the cold sleep of death; the countenance remaining as calm and placed as if he pulse of existence still vibrated through the frame, while voluntary muscular power was suspended, under the temporary oblivion of sound repose. The pleasurable moments which intervene between the states of consciousness and unconsciousness on approachng sleep, and the indistinct visions and indescribable emotions then experienced afford us some idea of the mode in which the sopoific influence of frost softens the iron grasp of the grim tyrant It must not, however, be supposed that the severity of the winter is an obstacle to all out-door amusements. though it stops the navigation of the rivers and the cultivation of the soil; on the contrary, winter in Canada is the season of joy and pleasure the cares of business are laid aside, and all classes and ranks indulge in a eneral carnival, as some amends for the toil undergone during the summer months. The sleigh or carriole of the proud scigneur, or humble habitan, is got ready all over the country-riding abroad on business or pleasure-visiting between friends, neighbours, nd relatives commences—city and town balls, pic-nic country parties, where each guest brings his dish, are quite the rage, and, after dining, dancing, supping, and dancing again, the wintry morning dawn is ushered in, while the festive glee is yet at its height, and a violent snow-storm often blockades the picnickers, until broad daylight enables them to proceed in their carrioles towards home-over the ice-bound rivers and waves of snow, the inconveniences of the moment being viewed as a zest to the more staid and fashionable routs of Quebec or Montreal.

Travelling over frozen rivers or lakes is, however, not unattended with real danger, the sleigh, its horses and passengers, having been not unfrequently instantly engulphed, and sucked beneath the ice, there being no warning of the danger until the horses are submerged, dragging the carriole and its or thin places are in general of no great extent; and when the horses are found to be sinking, the passengers instantly leap out on

breathing is momentarily checked, strangulation takes place, the animal becomes ice, when, the noose being loosened, respirafeet carrioling away again in a few minutes the current at the narrows opposite Quebec, as briskly as ever. This singular operation has been known to be performed two or traveller on the frozen rivers, but more espedanger from the large rifts or openings the horses endeavour to leap the chink at the imminent risk of being engulphed in the tween huge masses of ice

known, is utterly lost in the remembrance half-frozen river in their slight canoes of the unfortunate traveller The heavilygale of wind, which drifts the lighter particles along with great velocity, forming in its progress innumerable eddies according to the were light clouds from the earth, which obscure and confuse every thing. the hurricane, force their way through the scale in England.

small bells hung on the harness, the sound of which is cheering to the animal as well

horse be allowed to kick and struggle, it rapidly and extensively conveyed to an only serves to injure and sink him: as soon, anxious and listening ear, and the tinkle of however, as the noose is drawn tight, his the distant sleigh bell may well be thought musical.

Below Quebec the St. Lawrence is not motionless, rises to the surface, floats on one frozen over, but the navigation is impeded side, and is then drawn out on the strong by the large masses of ice which are floated down the river from the upper districts, and tion recommences, and the horse is on his kept in motion by the combined action of

and the diurnal influence of the ocean tides

Crossing the river at these times, though three times a day on the same horse. The a dangerous enterprise, is one constantly undertaken. The period chosen is high cially on the frozen lakes, also incurs great water, when the large masses of ice are almost stationary: the canoe is then launched. which run from one side of the lake to the the people being provided with ropes, boatother, from one to six feet broad, causing, at hooks and paddles, a sheet of ice being some distance from the crack, a shelving up reached the passengers jump on it, drawing of the ice to the height of several feet, in the canoe after them, until they come to proportion to the breadth of the fissure another opening, when they again launch The sleigh drivers, when they see no other their fragile conveyance, which is pushed mode of passing, or of escape, make the towards another sheet of ice, and so on, the greatest dexterity being necessary to avoid full gallop, with the sleigh behind them, at being crushed to pieces, canoe and all, be-

At distant intervals, about once in ten A snow-storm is another source of danger years, the St Lawrence is completely frozen to the American traveller, and indeed a across at Quebec, when a grand rejoicing snow-storm on land is as terrific as a hurri- or jubilee takes place, booths are erected, cane at sea, while this peculiar disadvantage sleigh-racing, skating, driving, &c , are perattends the traveller on terra firma, that he formed on a smooth sheet of ice, which for has no land-marks, to supply the place of eight miles appears like a mirror, and the the mariner's compass, and guide him in his pont (as it is termed) enables the country trackless path, the excited intellect becomes people from the opposite side to bring their rapidly bewildered, memory fails, and a road provisions, &c, to market in carrioles withoften travelled, and in calmer moments well out the difficulty and danger of crossing the

As soon as the winter sets in, the farmer falling snow is accompanied by a violent is obliged to house all his cattle, sheep, and poultry, those destined for winter use are killed before they lose any of the fat acquired during the summer and autumn No salt inequalities of the surface, and raising as it is necessary to preserve them; they are exposed to the frost for a short time, when This drift, they become as hard as ice, and in this state, which the Canadians call La Poudre, consists after being packed in casks or boxes with of minute but intensely frozen particles of snow, are preserved from the external air. snow, which, whirled by the impetuosity of At the end of four or five months they are perfectly good, and are thawed when required smallest window or door chink, leaving large for use with cold water-warm water would heaps of snow on the floor in a few hours, as render the provisions quite useless. Fish is we sometimes experience on a much smaller also preserved in a similar manner, and, it is stated, may be restored to life four or five The horses in the sleighs or carrioles have days after, if immediately frozen when taken out of the water.

During the month of April, the influence as to his master: in a frosty night, sound is of the sun on the ice and snow begins to be felt; in the middle of April spring com- assume various forms-at one time like gormences at Montreal: and three weeks after. the snow has all disappeared in the neighbourhood of Quebec; and the ice which had been accumulating in the great lakes and rivers connected with the St Lawrence, rushes down in vast masses towards the ocean, which again dashes it inland with the impetuosity of the gulf tides, presenting an extraordinary scene: sometimes the St Lawrence is choked up from bank to bank with masses of ice from 4 to 500 yards in diameter: the sea-tide and land-current forces these on one another, and break them into small pieces, forming fantastic groups of figures, high above the surface of the river The navigation of the river is not said to be completely open until the second week in May, when the ice-masses have all disappeared, vessels attempting to get out of, or to enter the St Lawrence while the ice is forming or disappearing, are frequently lost, by being embayed, and crushed to pieces during a severe storm, when the running rigging, and even the rudder become immoveable It is worthy of notice, that so large a river as the St Lawrence, in lat 47° N., should be shut up with ice as early, and remain as long closed (5 months) as the comparatively small river Neva, in lat 60° N

A singular meteorological phenomenon the prices moderate occurs in the midst of a Canadian winter, when the mercury is far below the freezing here to work in the fields, Canada is by no point, suddenly, in the course of a single means unfavourable for farming, and in ordiday, (in January generally), it ascends 2° or nary seasons, with the seed got in early, on 3° above the point of congelation, the weather soils well prepared, a good crop of all kinds of instantly changing from the greatest degree grain, wheat particularly, may generally be of cold to a complete thaw inundated with the melted snow, the roads continued emigration will give, the farmer become soft, and carrioling on the river dangerous; the thaw sometimes lasts for 10 days, when intense frost again commences producing a beautiful effect on the trees, by an incrustation of ice, which extends from the trunk to the smallest branch.

The severest winters are generally accompanied by N.E winds, which convey from woods (if he has a family), to commence Labrador and the icy Pole increase of snow and frost; but the prevailing winds throughout the year are westerly; in the winter, cold, sharp, and dry airs blow from the N. and N.W., and in the summer genial breezes hes come from the W. and S.W. The E. wind ing; after a long and gloomy winter, the blows for a few days in each month, and in earth is again renovated—new life restored the spring, during April and May, for a to plants—the trees dressed in leaves and longer period. The aurora borealis, or blossoms—the fields in beautiful green, and northern lights, are extremely brilliant, and all nature appears to rejoice."

geous floating standards, at another as vast crescents, changing into magnificent columns or pillars of resplendent light, which move in majestic grandeur from the horizon towards the zenith, until the whole firmament becomes splendidly irradiated—these suddenly vanishing, and as suddenly reappearing under new forms and colours, and with varied brilliancy, until they entirely disappear. It is said by some, that a rustling like that of silk is heard during a fine aurora.

Summer commences about the middle of May, and is usually ushered in by moderate rains and a rapid rise in the meridian heat, though the nights are still cool; but in June. July, and August, the heat becomes great, and for a few days oppressive, the thermometer ranging from 80° to 95° in the shade; but the average heat during the summer

seldom exceeds 75°

A good idea of the spring of the year may be formed from the following Agricultural Report for Eastern Canada in April and May, by Mr W. Evans of Côté St Paul :- "Early in April well-prepared soils are in good order to receive the seed, and about the 10th or 12th wheat sowing very generally commences. The pastures should now be good, and will soon improve the condition of the cattle Dairy produce abundant in the market, and Notwithstanding the shortness of the seasons that farmers have The streets are obtained. With command of labour, which has only to employ double the number of hands for the working season, while the days are long and fine, that he would have required in England for the whole year, and he may get all his work done, perhaps at not a greater expense, and the labourer will have his summer's earnings to take to the farming on his own account, which should be the ultimate aim of all the labouring class of emigrants, if they expect to secure future independence for themselves and their fami-At this period the country is charmstated to be considerable, partly owing to the motion of the magnetic poles, and the of the country; the effect is mainly observable in the lengthened duration of summer, and consequent shortening of winter A wide discrepancy marks the temperature of corresponding latitudes in Europe and America; the inhabited parts of the two Canadas he between 42° and 48° of N lat, and should therefore enjoy the temperature of central and southern Europe, if influenced merely by their distance from the equator and pole, but it is far otherwise; yet when we remember that the Tiber was formerly frozen annually—that snow was usual at Rome—that the Euxine sea, the Rhône and Rhine were almost every year covered with a strong sheet of ice, we may look forward to modifications of the climate of Canada.

Among the meteoric phenomena observed in Canada, I may here record that singular one, termed the "dark days," which occurred in October, 1785, and in July, 1814 These appearances (as described in the transactions of the Quebec Literary and Horticultural Society), consisted of a dismal pitchy darkness at noon-day, continuing about ten minutes at a time, and frequently repeated at twelve, two, three, and four o'clock, the masses of clouds streaked with yellow, drivby sudden gusts of wind with much thunder, lightning, and rain, the latter extremely black powder bright red colour this phenomenon by ascribing it to a volplaced on record that he witnessed at St the month of December, accompanied by the surrounding snow.

During the summer months there is a rapidity the stiffest soils, rendering them

That the climate of Canada has under- great deal of electric fluid in the atmosphere, gone a change is shown by the mean height and the vividness of the lightning and loudof the thermometer at 8 AM., for the month ness of the thunder are sometimes appalling of July in the following years:-1799, 66 87; in the extreme. As a general rule, it may 1802, 68.35; 1806, 65.96; 1809, 60 60; be observed that the prevailing winds (viz. 1812, 62.16; 1814, 60.45; 1816, 58.65; N.E., N.W., and S.W.) have considerable 1818, 64.00. Since 1818 the change is influence on the temperature of the atmos-N.E., N.W., and S.W.) have considerable phere and state of the weather. The S.W. (the most prevalent) is generally moderate, forest-clearing necessary for the cultivation and accompanied by clear skies, the N.E. and E bring continued rain in summer, and snow in winter; the N.W. is dry, cold, and elastic, owing to the ice-bound region from which it springs. Winds from due N., S., or W., are not frequent, and the direction of the tide, which is felt for nearly 60 miles above Quebec, often causes a change in the atmospheric current

As Canada becomes cleared, and its swamps drained, its climate will probably becomer milder, and its inhabitants enjoy as salubrious an atmosphere as we do in England, the heat of summer is now less relaxing, and the cold of winter more bracing than those of New York, or indeed any part of the United States. As regards agriculture, the lengthened winter of Lower Canada is certainly not on the whole unfavourable. The effect of snow covering the earth for a long period, is well known to be beneficial, and the fall of deep snow in a country where frost prevails from 5 to 6 months, is one instance among many, of the merciful dispensations of Providence, had it been otherwise, the continued action of cold on the earth would have so greatly deprived it of its natural caloric, that the heat of even the intervals being partially relieved by vast hottest summer would be insufficient to restore the warmth necessary to the germiing athwart the darkened sky, accompanied nation of plants, and the ascension of the sap in vegetables The natural heat of the earth is about 42° Fah, but water, when black, and in 1814, mixed with ashes and cooled down to 32° Fah, is converted into On the last occasion, when snow and ice; by this means, the rivers and the sun could be seen, it appeared of a the land, with their myriads of fish and in-The Indians account for sects, are protected by a dense crust of ice. which, being a non-conductor, preserves them cano in Labrador; and Mr. Gagnon has from the influence of the immense volume of cold atmosphere, which is continually Paul's Bay, in the Saguenay country, in pressing from the polar regions towards the 1791, the flames of a vast volcano, during equator. Thus, that very coating of snow, which seems so chilling, is in fact a warm violent shocks: flames mixed with dark garment for the earth; and when the sun smoke were thrown to a great height, caus- returns to gladden it, and the north winds are ing the whole atmosphere to appear one mass driven back to their icy region, the latent of fire, - which was in strange contrast with caloric of the earth begins to be developed, and the snow melts, and percolates with

peculiarly friable, and adapted to the immediate labours of the husbandman,—it is a singular fact, that for a month or six weeks before the apparent termination of the Canadian winter, vegetation is in active process even on the surface of the earth, beneath a covering of snow several feet thick.

At Chronitom, N. of Ha-Ha-Bay, on the

neath a covering of snow several feet thick. At Chicoutomi, N. of Ha-Ha Bay, on the Saguenay, the river closes about Christmas, and the ice breaks up about the middle of April. Potatoes have been planted early in May, and though their tops were frost killed in the middle of September, yet when taken up in the latter end of October, they yielded 30 bushels for one. Indian corn, oats, barley, all the common garden vegetables, and even melons, mpen on the Saguenay in the open ground.

Western Canada.—In, an extent of country, lying between 42° and 50° of N. lat, the climate is necessarily various, in the settled townships it is generally delightful, neither so cold in winter as in Eastern Canada, nor so hot in summer as at New York; in the Newcastle district, between 44° and 45°, a man may work in the woods, the whole winter, with his coat off, as in England; and the summer heat is tempered by a cool breeze, which sets in from the S.W. about 10 a m., and lasts generally to 3 or 4 p.m In summer, the wind blows two-thirds of the season from the S.W. i. e. along the great lakes

along the great lakes. In spring and autumn, this wind brings a good deal of moisture with it. The N W, which is the most frequent in winter, is dry, cold, and elastic; the S.E. soft, thawy, and rainy, the wind seldom blows from W or S, more rarely still from the N Of course, changes of wind are accompanied by corresponding alterations of weather, the most sudden are to the N.W., followed by weather clear and cold for the season-almost every thunder shower clears up with this wind the longest storms of rain, and the deepest falls of snow, are usually accompanied by easterly winds. It may be generally remarked, that the human frame, in all climates, is more sensibly affected by the quarter whence the wind blows, than by the mere height of the thermometer,-humidity with cold or heat rendering the extremes of The annexed table each less endurable. affords a comparative view of the climate of Western and Eastern Canada, throughout the year. Western Canada, lat. 42°-Eastern Canada, lat. 45°. The great lakes moderate the cold of Eastern Canada.

COMPARATIVE VIEW OF THE CLIMATES OF WESTERN AND EASTERN CANADA

THERVOMETER-FAHRENHEIT

W CANADA B CANADA	
Months	
	Iran.
	1 14
	0.69
March 52 0 26 94 47 -26 1	2 13
April , 83 40 59-70 81 9 4	8 91
	7 84
	6 34
	2 23
	47
September 92 33 64 45 90 30 5	9 16
October 74 28 48 55 9 3	2 24
	7 44
December 41 -2 25 43 43 -21 1	194
For the year 738 2372 4837 6-25 1175 4	21
For the months	
June, July, &	
	7 54
Winter months 46 33 -1 67 22 49 38 66 -21 33 1	1 25

WEATHER

	v	V CANAL	DA.	E CANADA			
Months	Clear	Ram on Snow	Cloudy	Clear	Ram or Snow	Cloudy	
	day,	davs	davs	days	days	days	
January	13	8	9	23	4	4	
February	11	10	7	21	۱ ۹	5	
March	21	8	2	25	3	3	
April	23	3	4	25	3	3	
May .	22	5	4	23	4	4	
June .	22	8	1	26	2	2	
July	25	3	3	26	3	2	
August	21	5	3 5	16	12	2 2 2 5	
September	21	8 3 5 8 3 5 5 8	9	18	8 5		
October	13	8	9	16	5	8	
November	11	14	7	14	7	10	
December	11	12	8	23	2	5	
Total	214	89	62	256	56	53	

Note—There were, during the year, in Western Canada, 34 days snow and 55 rain, and in Eastern Canada, 21 snow and 35 rain

The climate of Toronto, Western Canada, may be judged of from the following factsthe result of a series of observations made for several years on the shore of Lake Ontario, in 43° 39′ N. 79° 36′ W. The writer describes the climate on the shores of Lake Ontario as being in many respects genial. The temperature, proceeding westward, is sensibly much milder, and this effect is still further increased by the presence of so vast a body of water, mitigating both the heats of summer and the cold of winter. Even a very short distance inland the difference in both respects is plainly perceptible to the most superficial observer. The early frosts which occasionally do so much damage, are here comparatively harmless. What is a storm of rain on the shore of the lake is frequently snow but a few miles further

fresh gales sweeping the surface of the mag- been 43 degrees on the previous noon. And if it be admitted nificent Ontario. variable and unpleasant, this is more than become less as the summer advances. compensated for by the brightness and beauty of the summer and autumn, often in the years-There is no extending far into November doubt but that spring commences at least a month or six weeks earlier than in Quebec and Montreal; that the extremes, and likewise the sudden variations of temperature, are of far less intensity. Winters in Upper Canada sometimes occur with scarcely any snow at all, and a very moderate degree of cold—a fact never noticed in the Lower hours of 8 A M, and $12 = 95^{\circ}$. province - and the further westward we proceed, the more favourable is this differ-

The mean annual temperature fo several vears has been-

1831 .	40 68	1836	40 03	1842	. 44 10
1832	42.20	1837	40 98	1843	. 42 84
1833 .	42 40	1838	42 50	1844	. 44 60
1834 .	43 30	1840	43 70	1845	44 30
1825	49 0	1841	44 07		

A very inadequate idea, however, of a chmate like that of the Canadas is to be formed from the annual or monthly means alone In these results we lose sight, in a great measure, of the most striking feature, viz the sudden and great fluctuations of temperature to which it is subject, for it is evident that the same mean may be produced under very different circumstances—a moderate uniformity of temperature or high extremes balancing one another. Dr. Kelly observes, that, "perhaps there is no part of mometer is greater than in Canada. In the during the year. instance given above, the fall in the course below zero." These variations are no doubt land is about 50°.

back from it. The snow likewise disappears less severe as we proceed westward, but still much sooner in the spring, and the average sufficiently rigorous, and certainly constitute depth is considerably less. In short, it may the most disagreeable part of the climate. fairly be said, that to an emigrant from the A change of 30 degrees in 24 hours, or British Isles to Western Canada, the change less, is very common; and the variation has is no less surprising than agreeable. There amounted to 43 degrees. The greatest reis a clearness, a dryness, a brilliancy in the corded is that of December, 1834. On the atmosphere truly delightful after the raw noon of the 13th, the weather was fair. with drizzling rains, the fogs and moisture of a fresh southerly breeze. In the evening Europe, while the extremes of temperature the wind went to N.W., and at 8 a.m. on are never of long duration, tempered by the the 14th, the mercury was at zero, it having

The most evident changes occur generally that the weather of spring is occasionally in the early months of winter, and they

The annual range of the thermometer was

			Range				Range
1831	16 t	o 84	100°	1838	4 to	89	93.
1832	20	84	104	1840		84	95
1833	10	86	96	1841		92	92
1834	2	90	92	1842		87	82
1835	15	84	99	1843		92	98
1836	20	85	105	1844		85	93
1537	9	82	91	1845		94	96

Hence, mean annual range, between the

	dean Mean onthly Daily	3	Mean Ionthly	Mean
Ra	ange Range.			Range
January	51 29	July .	3Ĭ	21
February .		August	80	20
March		September		24
April	45 26	October		23
May		November		22
June		December		27

The above exhibits the mean variation monthly and daily. The month of February is the coldest in the year, July the hottest; the former likewise subject to the greatest extremes. Mean of October approximates nearly to the annual mean. Taking the number of days in the several years up to the freezing-point, we have as follows:—

1831	113	1836	140	1842	98
1832	112	1837	124	1843	126
1833	115	1840	101	1844	102
1834	116	1841	104	1845	105
1835	100				

The mean of which is 112, being the the globe where the range of the ther- average number of days of frost at 8 A.M.

The mean annual temperature of the of 36 hours was 59 degrees. In winter, central parts of England, from October to changes of a still greater extent, in the March, is usually 42°. In December, Jancourse of a day, are not unfrequent. It has uary, and February, it is generally below been known at Quebec to be from 36° to 40°. In July and August the range is from 40°, with rain during the day, and to fall 62° to 65°. The mean annual temperature, during the succeeding night many degrees noon and night, of the central part of Eng-

Days of Rain and Snow in Western Canada.

					Avera	ge for t	the year	1845.	
		Month	is,			Tem- pera- ture.	Days of Rain	of	Days of Snow.
January	Ï				_	23.8	3	0.27	8
February	Ē		:	- :		24 6	3	0.12	4
March				- 1		33 7	3	0.37	6
April		-	-		-	42.7	11	1 94	8
May			-			514	6	1 63	
June						62.4	9	2-51	-
July						67 2	9 5	1 00	-
August	·					670	8	174	-
Septembe	er					580	15	4 38	-
October						465	11	2.32	1
Novembe	•					35.0	5	0.55	5
Decembe	r	•	•			19-6	1	0.00	9

Observations for nine years' record-

in		No	of days of Ram	Depth Inches
1834			96	22 96
1835,	for 11	months	70	19 79
1836,	for 12	months	71	19 69
1837	**	99	82	25 51
1841	29	,,	75	21.64
1842		**	89	26 49
1843	,,	**	74	24 08
1844	33	,,	92	19 27
1845	99	99	79	16 56

The mean annual depth of the above is 22.02 inches, which agrees with several places in England (London, 20; York, 22, Aberdeen, 23); but the manner in which the same quantity is distributed varies materially. In Canada it falls heavily, and for a short time, the reverse of which is the case in the British Isles, for it is stated by an eminent meteorologist, that it has been found, from a long series of observations, to rain every other day in the latitude of London. The rainy season, moreover, in Canada (although rain falls sometimes more or less during the winter) may be considered as confined to the end of November, four or five months of wild fowl. of winter being nearly without it altogether.

not even at present severe, is becoming nated the tertian intervals. The greatest milder every year, as cultivation extends intensity of frost is always remittent at the to suppose that the great lakes, Ontario, &c open in the centre, frequently exhibiting a two or three days at a time. beautiful and striking phenomenon during the inclement season. water being warmer than the circumambient the atmosphere, the climate is so dry, that atmosphere, an evaporation resembling steam metals rust but slightly by exposure, even may be observed ascending in every variety on board vessels navigating lakes. Hence of shape, in clouds, columns, and pyramids, iron bolts are used in ship building, instead from the vast surfaces of Lakes Ontario, of copper.

Erie. Huron, and Superior, as if from so many boiling cauldrons.

The chain of shallow lakes which run in an E. and S.E. direction from Lake Simcoe towards the midland district, are seldom frozen more than an inch thick until about Christmas, and are thawed again before April.

The earth in Upper Canada is not generally frozen at a greater depth than from 12 to 18 inches, and the snow rarely acquires a greater thickness than from 18 inches to 2 feet, unless when drifted. It is very seldom that the roads are permanently fit for the use of the sleigh, or carriole, before the second week in January, and they are again broken up by the end of March: this shows the duration of sharp frosts and snow: in fact, a labouring man may, if he chooses, work at all times out of doors: whereas in Eastern Canada, at the more northerly stations, it would be impossible so to do.

There are several remarkable phenomena in the climate of Western Canada, hitherto unaccounted for-one of these is termed-

The Indian Summer, which almost uniformly commences and terminates in the month of November, when the weather is delightfully mild and serene, with a misty hazy atmosphere, though the haze is dry and soft, appearing to rest chiefly on the horizon. In the evenings of the *Indian* Summer, the sun generally goes down with a crimson flush on the western heavens: the temperature is exceedingly grateful; and the feathered tribes, who instinctively seek southern region on the approach of the rigorous winter of the north, avail themselves of this delightful season to prosecute their journey. Accordingly, at this time, the rivers and lakes of Western Canada may the period between the middle of April and be seen covered with innumerable flocks

Another very extraordinary meteorological The winter of Western Canada, although phenomenon is that which may be denomiand drainage increases. It is a great error end of the third day, when several days of mild weather succeed; thus the extreme seare frozen over at any time: they are always verity of the winter is never felt more than

> Owing perhaps to the distance from the By reason of the sea, and the absence of saline particles in

The people think, and the observation of meteorologists appears to justify the popular Western Canada is favourable to health and vation than they had done for 30 years, and many of the salubrity of the atmosphere. the weather was unusually trying.

On the whole, the climate of Eastern and opinion, that when the lake-waters rise to a longevity. In the Niagara, and other disgreat height, the season is unhealthy. In tricts of Eastern Canada, peaches arrive at 1815, the waters of Lake Ontario, which had great perfection in the open air. The energy been annually rising, attained a greater ele- of the inhabitants is one indication among

CHAPTER IV.

POPULATION OF E. AND W. CANADA, CLASSIFICATION, CHARACTER, DIVISION OF RACES, GOVERNMENT, LAWS, RELIGION, EDUCATION, THE PRESS, CRIME, &c.

Canada, like other portions of the American continent, was densely peopled by a copper- women, 77. coloured race, to whom the term Indians was given by the discoverers of the "New 1,024; girls, 1,021; total, 12,818. World." The establisment of European Colonies, and the wars waged between the led to the rapid destruction of the aborigines, who being neither agricultural or knives (5,607). nomadic, and living solely by the produce of the chase and fishing, were driven into different tribes, will be given under the the back settlements as civilization extended. The Abenaqua, Algonquin, Iroquois, Misdistricts from below Quebec to the country around lakes Erie and Huron.

the number of some of the Algongum tribes age, which multiplied by 6, gives 26,904. at 6,000 souls; but they were then diminishing daily under the baneful effects of 7,000, and Montreal 3,000 inhabitants. intoxicating liquors, and by diseases introtribes with whom the French waged several Parliament in 1849. voix, in his History of New France, vol. iii. as follows:p. 203, at 60,000 souls.

The Indian population remaining in 1828 was estimated by Mr. M Taggart (Three Years in Canada) at 43,000, viz., 15,000 m Eastern Canada, and 28,000 in Western

The British Government, in fulfilment of previous engagements, distributes annually presents required for the year 1849:-

Full equipment—chiefs, 46; warriors, 50; Common equipment—chiefs, 190; warriors, 3,356; women, 3,977; boys, equipments, include blue and grey clothes, cottons, linen, about 12,000 blankets, brass early English and French settlers in Canada, kettles, muskets, powder, ball, tobacco, needles (22,428), combs (5,607), awls (5,607),

> The character of the Indians and their description of the Hudson's Bay territories.

In 1692, Quebec contained only 50 Eurosisagua, and Huron Indians, occupied the peans, including both sexes. In 1706, M.M. Randot stated the population of Canada at 20,000. In 1714, M. De Ponchartrain, We have no means of ascertaining the in a letter to M. De Vaudreuil, stated, that numbers of the Indians then inhabiting Canada contained 4,484 men capable of Charlevoix, in 1721, estimated bearing arms, i.e., from 14 to 60 years of

In 1720, the city of Quebec contained

The following details are chiefly derived duced from Europe. Some of the Iroquois from the documents laid before the Canadian The population of disastrous wars, were estimated by Charle- Eastern Canada is stated to have increased

Year.	Pop.	Year.	Pop.
1676	8,415	1825	423,630
1688	11,249	1827	471.876
1700	15,000	1831	511.922
1706	20,000	1836	572.847
1759	65,000	1844	690,782
1784	113,000	1848	768,334

The census of 1825 showed, on a populacertain articles among a portion of the tion of 423,630, male adults to the number aboriginal population in Canada; and the of 105,571, or a per centage of 24.90. In following is an official statement of the 1844 on a population of 690,782, as compared with 511,920 in 1825, the increased per centage of males was 34.94. In 1844-45 there were, of white inhabitants—males, 344,855; females, 346,077; coloured—males, 140; females, 141.

There was no census taken in Eastern Canada for 1848; but by careful estimates and per centages on the previous rates of annual increase, an approximate calculation has been made; and the following table shows the area in square miles of each county in Eastern Canada, and the population in 1844 and 1848:—

District				Land, Square	Popu	lation
District	B.			Miles	1844	1848
GASPE -						
Gaspe .				4,053	7,146	7,771
Bonaventure				4,560	8,246	8,786
QUEBEC -	•			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-,
Saguenay .	_			75,700	13.475	19,364
Montmorence		-		7,465	8,434	8,988
Quebec .	•			16,040	45,676	65,805
Portneuf .	•	•	:	10,440	15,922	17,777
Rimonski .		•		8,200	17,630	19,683
Kamouraska			•	1,090	17,465	18,992
L'Islet		•	•	1,220	17,013	18,520
Bellechasse .	•	•	•	1,083	14,549	15,823
Lothmiere .	•	•	•	735	13,697	
Dorchester .	•		•	2,050		15,292
			•	2,000	34,817	38,877
Megantic	•	•		1,465	6,449	7,535
THREE RIVERS —					10.404	*****
Champlain				6,200	10,404	11,312
St Maurice .	٠			7,300	20,833	17,981
Drummond .		•	•	1,644	9,374	10,467
Yamaska .				283	11,956	13,000
Nicolet .				487	16,310	17,735
ST FRANCIS —						
Sherbrooke .				2,785	13,485	15,055
Stanstead .				632	11,964	13,009
MONTREAL -				1		
Berthier .				9,590	26,859	29,988
Lemster .				5,090	25,533	28,507
Terrebonne .				545	20,646	23,052
Two Mountains				1,404	26,835	29,952
Ottawa .				35,100	12,434	17,870
Montreal .				197	64,306	71,039
Vaudreuil	Ť			330	17,063	18,554
Beauharnois				717	28,746	32,095
Huntingdon	•	:		488	36,204	39,371
Chambly .	•	•	•	211	17,155	18,610
Vercheres .	•	:	•	198	13,167	14,029
Richelieu	•	•	•	873	20,888	22,255
St Hyancinthe	•	•	•	477	21,937	23,894
77 277	•	•	•	429	22,898	24,900
Shefford .	•	•	۰	749	10,105	11,282
	•	•	•	360	10,865	11,815
Missisquoi .	•	•	٠	300	10,000	11,010
Total				209,290	690,782	768,334

'This statement shews how thinly Eastern Canada is peopled: there being not more than three mouths and a half to each square mile.

The census of 1844 in Eastern Canada was accurate, and it shows that out of 690,782 inhabitants, there were under 15 years of age, males, 160,535, females, 158,731 = 319,266.

The proportion in 1844 of married men to the whole, was 60.55 per cent.; and of

unmarried, 39.45. Married women above 14 years of age, 61.18 per cent.; and single, 38.82 per cent.

Males.	Married.	Single.	Total.
15 and under 21	2,038	39.589	41.627
21 , 30	22,974	20,176	43,150
30 , 40	33,684	5,909	39,593
40 ,, 50	25,797	31,119	28,916
50 , 60	15,148	2,089	17,237
60 and upwards.	13,393	2,780	16,173
Total in 1844	173,034	73,662	186,696
, 1831	83,153	60,690	143,843
,, 1825	69,938	36,935	105,873

In England it is assumed that the births are about 1 to 33 of the whole population, and the deaths 1 in 54. In Eastern Canada, according to the census of 1844, there were—

	1844.					
Districts.	Births.	Deaths.	Marriages.			
Quebec Montreal	1 in 20 20 21 29 101 21	1 in 41 " 51 " 60 " 126 " 348 " 53	1 in 109 " 111 " 106 " 136 " 230 " 113			
Total numbers	32,279	12,928	6,118			

Note.—The returns for St. Francis district are imperfect, and fractions omitted.

	1847.					
Districts.	Births.	Marriages.	Deaths.			
Montreal	18,772	381	9.435			
Quebec	11,715	2,065	10,221			
Three Rivers .	3,612	572	1,238			
St. Francis	514	161	120			
Gaspé	594	104	128			
Total	35,207	6,283	21,142			

Increase of Births over Deaths, 14,165.

The census of 1844 shows, in Eastern Canada, the following interesting particulars:—

Deaf and Dumb in 1844.

Districts. Males. Fems. Total. Average.									
Districts.	Males.	Fems.	Total.	Average.					
Montreal	254	167	421	1 in 875					
St. Francis	14	17	31	,, 1,046					
Three Rivers .	39	31	70	,, 983					
Quebec	73	58	151	,, 1,360					
Gaspé	7	3	10	,, 1,539					
Total	407	276	683	1,011					

Rlind in 1844

	Birna	3n 184	4.	
Districts.	Males.	Fems.	Total.	Average.
Montreal St. Francis . Three Rivers Quebec Gaspé	160 6 45	146 5 44 50 2	306 11 89 110 4	1 in 1,212 ,, 2,449 ,, 774 ,, 1,863 ,, 3,848
Total	273	247	520	1,328
	Idrots	ın 184	4.	
Districts.	Males.	Fems	Total.	Average.
Montreal St. Francis . Three Rivers Quebec Gaspé	226 11 71 172 2	237 9 64 150 7	463 20 135 322 9	1 in 769 " 1,622 " 510 " 638 " 1,710
Total	482	467	949	728
	Lunatro	s in 18	44	
Districts.	Males.	Fems	Total	Average.
Montreal St Francis . Three Rivers Quebec Gaspé	81 2 34 40 2	82 6 29 32 1	163 8 63 72 3	1 in 2,261 ,, 4,054 ,, 1,093 ,, 2,853 ,, 5,133
Total	159	150	309	,, 2,203

In 1831 there were returned as hving upon alms in Lower Canada, 1282 persons, or one in every 399 of the population. In 1844 the number was 4552, or one in every 151 of the population. It appears there was an increase of pauperism between 1831 and 1844, (probably owing to the rebellion of 1837-38) as shown in the following table:

Districts.	1831.	1844.	Per cent. increase.		
Montreal St. Francis Three Rivers . Quebec	1 m 575 , 716 , 221 , 1,331	1 in 282 , 1,801 , 393 , 68 , 570	159·32 		

Proportionate Occu	patrons of th	e People.
Occupations.	1831.	1844.
Proprietors of real estate Non-Proprietors Families subsisting by	1 in 9 20	
Male farm-servants Domestic servants, Male Female Children attending school	" 50,834 " 2,503 " 7 602 No return.	1 in 3,651 6.106
under 14 years of age	1 in	" 3
In the five years	ending	1833, there

arrived in the colony finmigrants to the number of 167,697; ditto, 1838, 96,351; ditto, 1843, 123,860; ditto, 1846, 78,271. In the year 1847,89,440. Total, 555,619.

Comparative Statement of Immigrants at Quebec.

	1842	1843.	1844	1845.	1846.	1847.
England	12,493 25,470 5,887 524	6,946 9,638 4,178 430	9,778	14,208	21,049 1,645	3,315
Total	. 46,374	21,187	20,142	25,375	32,753	89,440

Note—In 1845, 160, and in 1846, 896, given as from "Lower Ports," were from Germany.

Most of these immigrants proceed to Western Canada, but many cross the frontier into the territories of the United States. It is not possible to ascertain the numbers who thus leave the colony, nor in what district the immigrants who remain settle.

The year 1847 was one of large emigration from the United Kingdom to Canada, owing to the famine in Ireland and in Scotland, and the distress in England. Of 98,088 passengers who embarked, 8,648 died at sea or in quarantine in Canada. To Western Canada, 76,380 immigrants passed during 1847—of these 15,228 were admitted into the hospitals at the various stations, and 3,805 died. About 17,000 passed into the United States.

The number of ships that arrived at Quebec with immigrants in 1847, was—from England 133—Ireland 224—Scotland, Germany 36—total 431:—landed in the colony 83,873:—of whom 695 were cabin passengers—32,817 male, and 25,654 female adults—13,101 male and 13,301 female children, and 4,872 infants under one year old, of whom 172 were born at sea. The male adults were—mechanics 1185—farmers 11,096—labourers 23,239—servants 6.

Immigration from the U. Kingdom to N. America.

-					
Years	Nh Am Colonies.	U States	Years	Nh. Am Colonies	U. States
			Brt up	333,245	263,489
1825	8.741	5,551	1837	29.884	86,770
1826	12.818	7,063	1838	4.577	14,332
1827	12,648	14.526	1839	12,658	83,536
1828	12,084	12,817	1840	32,293	40,642
1829	13.307	15,678	1841	38,164	45,017
1830	30,574	24.887	1842	64.128	68,852
1831	58,067	23,418	1843	23,518	40,002
1832	00,001	20,210	1844	22,924	49 600
1833	28,808	29,109	1845	22,842	43,660
1834	40,060	83,074	1846		
1835	15.578	26,720	1847	100 000	240'204
1836				109,680	142,154
1090	84,226	87,774	1848	81,065	
Total	383,245	268 489	Total	767.873	1,040,797
	w 10	TOU	2000	101010	************

The French colonists did not advance far into Western Canada, probably owing to their wars with the Indians. Previous to 1770, the only white settlers in Western Canada were a few Frenchmen in the vicinities of Kingston and Detroit. When the United Colonies (now the United States) threw off their allegiance to England, and the war commenced between them and the parent state, many desirous of remaining under the crown of England, fled from the revolting provinces, and fixed their residences at the frontier townships in Western Canada. Their numbers were gradually increased by emigrants from Britain. The progressive augmentation since 1811 has been as follows:-

Population in Western Canada.

1811	77,000	1 1835	336,469
1824	. 151,097		385,824
1825	158,027	1639	407,515
1826	163,702	1840	427,441
1827	176,059	1841	465,357
1828	261,060	1842	486,055
1832	261,069	1848	732,292
1834	320,693	1849	750,000

The average annual increase from 1824 to to 1828 was 9,261; from 1828 to 1832 it was 18,661; from 1832 to 1834 the yearly augmentation was 22,212; from 1834 to 1836 18,712.

Taking the ratio of increase during the periods from 1824 to 1833, and from 1828 to 1836, the population of Upper Canada would double itself in less than 10 years.

The increase of males and females in Western Canada since 1821 has been—

Years.	Males.	Females.	Years	Males.	Females.
1821 1823 1827 1828 1829	65,792 79,238 95,903 99,465 103,285	56,795 70,931 85,842 80,093 92,880	1832 1836 1842 1848	130,003 189,271 259,914 387,631	117,039 168,916 226,141 338,248

In 1842 and 1848 the females were to the males as 100 to 88. In 1848 the total female adults were 179,468, of whom 111,034, or 62-04 per cent., were married.

Population of Upper Canada, and its increase at several periods between the years 1824 and 1848, according to the divisions into Municipal Districts.

Districts.	1824.	1825.	1830	1832.	1834,	1836.	1839.	1841.	1842.	1848.
Bathurst	10,121	10,309	16,015	19,686	22,079	24,127	24,632	27,635	21,655	29,448
Brock	.,	,		. ,			, ,	15,621	17,286	29,219
Colborne									13,706	21,379
Dalhousie									16,193	25,520
Eastern	14,879	16,524	19,755	21,735	25,105	28,911	28,827	30,279	32,008	38,653
Gore	13,157	14,215	20,945	27,224	34,618	43,920	51,627	42,57	45,059	67,671
Home	16,609	17,9 4 6	28,565	36,633	55,508	53,214	59,209	67,074		106,995
Huron									7,190	20,450
Johnstown	14,741	15,266	19,27	24,299	28,061	29,237	32,669	35,952	32,445	43,436
London	17,539	17,351	22,803	28,941	37,162	47,095	43,882	32,25	30,276	46,547
Midland	27,695	27,116	34,190	37,457	32,509	24,818	26,179	32,208	34,448	45,299
Newcastle	9,292	9,966	14,850	21,019		32,936	36,914	41,951	31,01	47,433
Niagara	17,552	18,990	20,916	24,181	27,347	30,447	29,953	34,57	36,642 7,369	43,095 10,364
Ottawa	2,560	2,580	2,833	5,293	6,325	7,487	8,483	9,324		18,021
Prince Edward's				0.005	11,823	12,34	13,999 10,743	14,661 11,576	14,945	23,050
Simcoe				3,985		10,215	9.066	9,626	10,455	19,274
Talbot						10,587	12,085	13,161	13,196	23,133
Victoria						10,007	12,000	13,851	14,476	36,865
Wellington Western	6.952	77 704	9,288	10,627	12,752	17.065	19.267	23,026	24,390	27,440
western	0,902	7,764	8,200	10,027	12,102	11,000	10,201	20,020	22,000	21,220
Totals	151,09	158,027	210,43	261,060	320,693	372,502	407,515	465,35	486,055	723,292
Increase:										
1825		6.930	52,410	50.523	59,633	51,809	35.013	57,842	20.698	237,237
1830		0,000	59,340			111,442	86,822	92,855	78,540	258,835
1832			00,010		162,666		146,455	144,664	113.553	313,777
1834				100,000		214,475	197,078	204,297		350,790
1836					200,000		249,488	254,920	224,995	402,599
1839						,	256,418	307,330	275,618	462,232
1841								314,260	328,026	
1842								•	334,958	
1848										572,195

Note.—In the detail, the number for 1848 is 723,332, showing a difference of 40. The returns for Simooe in 1834 and 1842, are included in the Home district.

The progressive increase of both sexes, according to ages, is thus shown in Western Canada:-

	Under 16 years of age		Over 1 of	Total				
				Males	Females	emales Males Females		
1824 1832 1834 1842		:	:	37,346 67,119 81,951 137,664	35,606 62,734 76,541 122,252	41,393 70,427 88,182 108,634	36,752 60,780 74,109 117,505	151,097 261,060 320,693 486,055

According to the census of 1848, there were-

Years.	Males	Fem	Ma	les.	Females.	
I cars.	Mates	rem	Mar	Single	Mar	Single
Under 5	70,834			_	_	_
5 and under 14	96,436	89,264	_	_		
14 , 18	_	_	1,950	31,588		_
18 " 21	-	_	1,551	20,516		_
21 , 30	_	_	25,297	30,698	_	_
14 , 45		-	_	-	87,906	60,664
30 . 60			80,637	13,908	_	-
45 and upwards	-		<u> </u>		23,398	7,500
60 ,,	-	_	11,088	3,128	-	
		1				

Note -The Number of Children between 5 and 16 years of age was 19,032

Census of Western Canada by Electoral Divisions, as divided by Act § Vic. c. 7.

		Area in	Population.		
Districts.		Acres.	1842.	1848	
Bathurst . Brock		1,260,800 584,320	21,655 17,286	29,448 29,219	
Colborne Dalhousie Eastern		647,040 448,000 779,520	13,706 16,193 32,008	21,379 25,520 38,653	
Gore Home		741,760 1,361,600 1,104,000	45,059 83,301 7,190	67,671 106,995 20,450	
Johnstown London Midland		1,021,000 990,040	32,445 30,276	43,436 46,547	
Newcastle Niagara		1,198,720 1,344,640 703,360	34,448 31,015 36,642	45,299 47,433 43,095	
Ottawa Prince Edward Simcoe		532,960 220,000 1,448,800	7,369 14,945 in home	10,364 18,021 23,050	
Talbot Victoria		384,000 842,000	10,455 13,196	19,274 23,133	
Wellington Western	:	1,097,600 1,616,640	14,476 24,390	36,865 27,440	
Total .	٠	18,358,800	486,055	723,292	

The contents of each district are given according to Bouchette, making a total of 258,684 square miles. This includes only the surveyed and settled portion of Western Canada, which contains, according to the

viduals to each square mile in the settled districts above named is 25, and to each square mile of area in Western Canada there are 5 inhabitants. The area of the Indian territory in the vicinity of Lake Huron is New districts and townships 1,883,200. are progressively added to the settled parts of the province. The average area of each township is about 60,000 acres. The fine country N. of the Midland, Victoria, and Colborne districts, S. of the parallel of 47° N., and situated between Georgian Bay and the Ottawa, 150 miles long by 150 broad, is as yet unoccupied, and would contain an immense population.

Population of Cities and incorporated Towns in 1848. — Cities: Toronto, 23,503; Hamilton, 9,889; Kingston, 8,369. Towns: Bytown, 6,275; Cornwall, 1,454; Brockville, 2,449; Prescott, 1,775; Picton, 1,599; Belleville, 2,939; Cobourg, 3,513; Port Hope, 2,025; Niagara, 3,100; St. Cathermes, 3,416; London, 4,584; Peterboro, 1,906; Brantford, 2,250; Dundas, 1,912. number of inhabitants to each house is 61, and the average of persons in each family

Table of Distances of Principal Towns.

Mon	treal								
82	Corr	Cornwall							
131	49 Prescott								
143	61	12	Broo	kvill	е				
199	117	68	56	Kın	gston	•			
258	176	127	115	59	Bell	eville			
304	222	173	161	105	46	Соъс	urg		
390	308	259	247	191	132	86	Toro	nto	
475	393	344	332	276	217	171	85	Niag	ara.
482	400	351	339	283	224	178	92	7	Quee
508	426	377	365	309	250	204	118	33	26

In 1848 the births were 27,688; or 1 to every 26. Deaths, 11,518; or 1 to 63. Difference, 16,170; or 1 to 37. The general average of births and deaths in England is of the former 1 in 33, and of the latter 1 in 54. This shows the superior salubrity of Canada, where twin and triplet births are frequent. The Colonial Magazine of 1845 thus announces an instance:- "At Buckingham, near Bytown, Canada, on July 10. Mrs. O'Callaghan of two boys and a girl. same authority, a superficial area of 141,000 Mrs. O'Callaghan has been the mother of square statute miles. The number of indi- five children within the space of two years." —According to the United States' census in 1840, children under 5 years constitute about 15 per cent. of the population; in Canada nearly 20 per cent.; in England the proportion is much less. For every 100 males born, about 42 die, and for every 100 females, 41 die. In Western Canada there were—

In 1848.	Males		Females		
Births . Deaths . Lunatics and Idiots Deaf and Dumb Blind .	15,317 6,429 457 234 152	1 m 848 , 1,656 , 1,550	12,371 5,089 311 194 200	1 m 1,088 = 1,743 = 1,691	

The census of the United States does not classify the sexes, as regards lunatics, deaf, dumb, and blind. The proportions of both sexes in the U. States, according to census in 1840, were—blind, 6,916, or 1 in every 2,842 inhabitants; deaf and dumb, 7,659, or 1 in every 2,228; lunatics and idiots, 17,434, or 1 in every 979. The total number afflicted as above stated were—in Canada, 1,548, or 1 in every 472 inhabitants. In the United States, 32,009, or 1 in every 533 inhabitants.

In 1842 the census for Western Canada showed a total afflicted as above:—males, 798, or 1 in every 326; females, 886, or 1 in every 255; total, 1,684, or 1 in every 288. This indicates a considerable improvement in the number of sane and sound births. In the census of 1842 the idiots are properly distinguished from the lunatics, thus.—

Males . Females	:	. 221, or . 178		1,176 1,271	
		399	90	1,818	
Males . Females		Lunatics 241, or . 487	1 m	1,078 464	
		728	_	667	

The increase of farm servants in Western Canada shows an increase in the number of those able to employ assistance. In 1842 the number of resident farm servants was 3,184; and in 1848, 7,514—more than double. In the same period the domestic female servants increased from 5,181 to 10,701. In 1848 there were, according to sex—

-	Males.	Females	Total.
Domestic Servants Coloured Persons Persons attending Schools or Colleges		10,701 2,453	15,110 5,469
	46,371	34,090	80,461

According to the census of 1848, the population of 723,332 inhabited 112,595 houses; or nearly 7 to each house. The average of persons in each family was about 6. The number of heads of families 119,061. Proprietors of real estate, 60,559; non-proprietors, 49,321.

Where the returns were perfect, in 616,514 persons there were 100,405 heads of families. Employed in professions, 1,877; trade, commerce, and handicrafts, 19,713; agriculture, 68,417; labourers, 11,185; in factories, 3,866. In the whole province about 80 per cent. of the population derived their subsistence directly from agriculture. The non-producing classes do not amount to 8,000.

Population of Canada, according to origin.

Countries.	Eastern Canada	Western	Canada.
	1844.	1842.	1848
English	12,136	43,009	64,560
Irish	44,512	82,728	140,673
Scotch	13,591	42,003	57,604
Canadian-French .	520,215	14,767	20,490
" British .	86,075	261,822	383,084
From Continental Eu-		1	1
rope, &c	2,471	6,957	18,847
" United States .	12,193	34,739	32,579
Total	691,193	486,055	717,837

There was no census of Eastern Canada in 1848, although enjoined by law; it is therefore impossible to state the number of French Canadians now in Eastern and Western Canada; they are certainly not less than sux hundred thousand. In Western Canada the proportions of races and increase per cent. in 7 years were —

Countries	ı		1842.	1848.	Increase per cent. in 7 years
England .			8 85	8 99	50 10
Ireland		•	17 02	19 60	70 04
Scotland .			8 65	8 03	37 04
Canadian-French			3 05	2 85	38 75
British			53 86	53 36	46 31
Continental Euro			1.43	2 63	170 90 decrease
United States		•	7 14	4.54	6.63
Total .			100 00	100-00	Increase.
On the whole	47.68				
According to c	ensı	us, by	ages, in	1848 .	51.40
					<u> </u>

It is evident that no influx of natives of the United States takes place. The equable remarkable.

Population of Canada according to Religious Census

Lenominations		1	
	1844	1842.	1848
Church of England Church of Scotland Church of Rome British Wesleyans Canadian Wesleyans Episcopal Methodists Other Methodists Other Methodists Congregationalists and Independents Baptists and Anabaptists Lutherans Quakers Jews Other denominations, or not accounted for	42,274 26,725 57,174 10,814 3,010 711 1,318 5,231 3,890 4,067 96 144 154	107,791 77,869 65,203 23,342 32,313 20,125 7,141 18,220 4,253 16,411 4,524 5,200 1,105	171,767 67,900 123,707 90,363 36,893 14,977 65,101 6,126 28,965 7,420 6,148 134 83,847

Note.—"Other denominations" in Western Canada in 1848, include 62,128 of no creed or denomination, 4,767 menonists; 2,269 universalists; 700 unitarians, and 13,983 of all other denominations. The presbyterians of Western Canada in 1848, include 64,729 of the "free presbyterian church of Canada," and 20,372 of other presbyterians. The census of 1848 of Western Canada, shows a deficiency of 22,790, compared with the census by ages, which have been divided among the several denominations in proportion to the numbers returned. Sectarian jealousies prevail so strongly that perfect accuracy in the religious census cannot be expected

The character of the inhabitants of Canada partakes of the source whence they springif of French descent, levity and obsequiousness give place to ease, or rather gentleness of manner, combined with manly, yet respectful freedom of deportment: the descendants of the English lose the rusticity and boorishness peculiar to the lower class of their ancestors; and with abundance of the necessaries of life, and leisure for the improvement of their minds, the natural saturnine character of the British is relieved by a pleasing buoyancy of spirit and enthusiasm a charming tone and colouring. of action.

The offspring of the original French inhabitants, forming about one-half of the population, deserve a few special remarks as to their habits and manners. Most of the people are proprietors to a greater or less extent, of land; and the equal division of property, on the demise of a parent, contrimeans of a comfortable existence, and freed festival.

rate of increase of the different nations is by his light-hearted, hospitable, and social habits, the blessings derived from the enjoyment, on no harsh terms, of the few and

simple necessaries of life.

The true Canadian, although fond of pleasure and social happiness, is yet rather a sedentary being, and of a staid, often sombre deportment; peculiarly attached to the locality which gave him birth; devoted to the religion in which he was educated, sincere in his respect for those whom he considers his superiors, and remarkable for his faithful fulfilment of every social duty. Although unlettered himself in the European sense of the term, he is ever ready to pay his tribute of respect to those possessed of mental endowments—the more so if literary attainments be accompanied by moral worth: with a mind deeply imbued with early prejudices as to religion, country, and institutions, yet charitable to a considerable extent towards the feelings and even the failings of others; polite, without affectation; generous, without parade; slow to offend; quick to resent an insult, yet ready to forgive. Many governors have borne testimony to the favourable traits which distinguish the French Canadians. Lord Durham said-"they are mild and kindly, frugal, industrious, and honest; very sociable, cheerful, and hospitable, and distinguished for a courtesy and real politeness, which pervades every class of society."

The French Canadian women are when young, handsome brunettes, fond of finery, but good wives and mothers; their wit is sparkling, and in constant exercise, more playful than sarcastic, delighting rather than wounding, but withal remarkable for a kind of good-natured maliciousness. who have visited the Canadas agree that society there is extremely agreeable—freed from unnecessary forms, giving to life an air of delightful ease, and to private intercourse

As in all Roman catholic countries, the enjoyments of the people are connected with their religious ceremonies; on the Sabbath morn, the parish, or village chapel, is thronged with both sexes, clad in their best habiliments; but, the service over, and that part of their duty to the Creator fulfilled, the remainder of the day is devoted to festivity; butes to spread a large mass of industry and the enjoyment of social happiness being capital over the country. Possessed of the considered an essential part of the weekly Sunday afternoon is, in fact, a from the dread of future want, the Canadian season of gaiety; the parish church collects spends his life in cheerful toil, and evinces together an assemblage of relatives and friends intent on enjoyment; the old meet really raised with care, to afford that exquito converse on the state of the weather—the site enjoyment which the rudest and least crops—the politics of the day; the young sophisticated seem to feel in viewing and to make love to their sweethearts—the che- scenting "the hlies of the fields." valier, on his best pacer, or driving his finest farm hes around the house; and at a greater carriole—the lady, adorned in the most be- or less distance, the river or lake offers an coming style, palpitating with the hopes and ample supply of the finny tribe for a cuisine. fears of an approaching bridal day—the always abundant, sometimes luxurious: evening in cheerful feasts, to which dancing while the rich maple yields a large store of is frequently superadded. (French Canadians) of the poorer classes are summer fruits, through a long and dreary generally tall and thin, with small, dark, lively eyes, aquiline noses, and thin lips. Those who are much exposed to the air are drawn an excellent picture of the French as dark as the Indian race.

The dress of the habitan is peculiar, as well as his manners; it consists of a grey cloth capot, or large coat reaching to the knee, bound round the middle with a sash of scarlet, or exhibiting various bright colours, and close-buttoned to the neck: the bonnet bleu, or a light straw hat is worn in the heat of summer, a fur cap in winter; mocassins of sole leather complete the male peasant's usual dress. The female peasant's costume is similar to that worn in the south of France—the mantelet, a jacket of dark, or different coloured cloth, with a stuff petticoat, mocassins, and a head dress a la Francaise. on Sunday, of course, the habiliments are of more varied character, and where the English girl wears one colour, the Canadian will exhibit half a dozen of the brightest hues. The people are frugal in their habits: their diet consists chiefly of soups, vegetables, and fish, and their farms furnish almost every thing they require.

Of the houses it may be sufficient to observe that there is a great similarity between those of the farmers and peasantry in Normandy, and the people of a similar grade in Canada; they are generally of one story built of wood, whitewashed, extremely clean within, and having the chimney in the centre of the building; there is a partition French are so much attached, the colonists between the kitchen and large apartment, remained for years the same uninstructed, where the inmates dwell; the sleeping-rooms are at either end of the house, which is well furnished with beds, home-made linen of excellent texture; strong, convenient, and rence gave the seignories the appearance of often handsome furniture, and a large variety a never-ending street; and the farms owed of culmary utensils.

little regard to the rules of art, abounds in cultivation. Their energy was manifested fruit and vegetables, the rearing of which chiefly in the fur trade, and in hunting, and devolves on the women of the family, whose commerce was scarcely deemed deserving or taste is often displayed in small patches of attention. With the tenacity peculiar to the flowers, which appear to grow wild, but are Gothic or Celtic race, the people clung to

The habitans sugar, for the preservation of the luscious winter.

Lord Durham, in his able report, has Canadian; he traces from its commencement the deep-rooted hatred of race which exercises so injurious an influence upon the internal peace and prosperity of Canada, and renders its legislation so difficult at the present moment. At the period of the early colonization of Canada, the institutions of France were, perhaps more than those of any other European nation, calculated to repress the intelligence and freedom of the great mass of the people. The same illorganised and repressive despotism followed the Canadian colonist across the Atlantic. He was allowed no voice in the government of his province or the choice of his rulers, and not even permitted to associate with his neighbours for the regulation of municipal affairs. He obtained his land on a tenure singularly calculated to promote his immediate comfort, but which placed him at once in a life of constant labour and of feudal Ecclesiastical authority condependence. tinued to exercise its influence over himeducation was neglected both by the government and by the people, and congregated together in rural communities, occupying portions of the unappropriated soil, with abundance of the mere necessaries of life, retained in a course of labour, varied only by the social enjoyments to which the mactive, and unprogressive people. towns were established; a series of continuous villages along the banks of the St. Lawtheir productiveness to the fertility of the The adjacent garden, though laid out with soil, rather than to the skill employed for its ancient prejudices, customs, and laws; and the habits and manners which gradually passed away from European society were preserved in all their pristine character in the new world. At the time of the British conquest of Canada, the people were in an old and stationary state of society—in the vicinity of an active and progressive Anglo-Saxon race. A few families possessed seignorial rights, large, though not valuable, properties, and much influence over the bulk of the people, of whom few depended on wages for their support—the mass being in the condition of a hard-working veomanry.

The piety of the early founders of Canada, and the foresight of the Jesuits, provided seminaries and means for public instruction, which was little attended to until density of population pressed on the means of existence, and made the cadets of families seek in a profession the subsistence heretofore derived from the land. Two or three hundred young men thus annually became by education superior to the community whence they sprang, and as the multary and naval professions were resources not available to the colonists, the church, the law, and medicine soon became overthronged with village priests, advocates, and mediciners, who, possessed of superior knowledge, wielded an extraordinary influence over an uninstructed population, with whom they lived on terms of social equality, and from whom they were separated by no barriers of manners, of pride, or distinct interests. Unfortunately the British government took no steps to conciliate or to employ this class, who naturally fell into the position of demagogues, and were moved as one mass by the leading members of the House of Assembly, during the struggle for constitutional rights, which has been detailed in the first chapter. "Among the people," says Lord Durham-

"The progress of emigration has of late years introduced an English population, exhibiting the characteristics with which we are familiar, as those of the most enterprising of every class of our countrymen. The circumstances of the early colonial administration excluded the native Canadian from power, and vested all offices of trust and emolument in the hands of strangers of English origin. The highest posts in the law were confided to the same class of persons. The functionaries of the civil government, together with the officers of the army, composed a kind of privileged class, occupying the first place in the community, and excluding the higher class of the natives from society, as well as from the government of their own country. It was not till within a very few years, as was testified by persons who had seen much of the country, that this society of civil and military

functionaries ceased to exhibit towards the higher order of Canadians an exclusiveness of demeanour which was more revolting to a sensitive and politic people than the monopoly of power and profit; nor was this national favouritism discontinued until after repeated complaints and an angry contest, which had excited passions that concessions could not allay. The races had become enemies ere a tardy justice was extorted; and even then the government discovered a mode of distributing its patronage among the Canadians, which was quite as offensive to that people as their previous exclusion."

The English capitalist, merchant, trader, the bulk of the people, of whom few de- and farmer became formidable competitors with an inert race; they rapidly acquired about half of the more valuable seignorial rights in the townships, and considerable irritation arose by the transfer of large properties from burthened seignors to active British agriculturists and settlers, whose superior energy, skill, and capital, not only threw into their hands the entire wholesale. and a large proportion of the retail trade of the province, but also vested in their hands the most profitable and flourishing farms. It will afford an idea of the influence and power possessed by the British minority previous to the legislative union of Eastern and Western Canada, by examining the relative investments of the two races in the public institutions of the province:-

	Public Companies	Capital	Shares	British	French
	ENGLISH-CANADIAN Stock of Montreal Bank	£ 250,000	5,000	£ 247,400	£ 2.600
	Ditto of City Bank	200,000	8,000	192,800	7.200
	Ditto of Champlain, and St Lawrence Railway	•	0,000	102,000	4,200
	Company Ditto Montreal Water	50,000	1,000	49,150	850
	Works Ditto of St Lawrence	70,000	80	70,000	-
	Steam-boat Company Ditto Montreal Steam	65,000	48	61,615	3,385
	Tow Boat Company Ditto Ottawa and Rideau	40,200	710	38,518	1,682
	Forwarding Company Ditto St Lawrence Steam-	33,190	1,172	32,482	508
	boat and Mail Coach Company	25,000	1,000	25,000	
	Ditto Montreal Gas Works		1,000	19,500	600
	Ditto St Ann Market Ditto of other Steam-boats and capital invested in the Forwarding estab- lishments on the St Lawrence, above and	15,500	,,,,,	13,575	1,925
	below Montreal	50,000		50,000	
		818,890		800,040	18,830
	FRENCH-CANADIAN Stock of Mutual Insu-				
•	Stock of Mutual Insu- rance Company Ditto Banque du Peuple	40,000		16,281	23,719
	People's Bank .	80,000		30,000	50,000
		938,890		846,321	92,569
	_				

Previous to the rebellion of 1837, the

antagonism of race had risen to a great kindness or fairness, as covering secret designs of height. It would not be possible to convey in few words an adequate idea of the deeprooted feelings of estrangement and almost aversion with which the French and English Canadians regarded each other, and by which the tranquillity of the province was so seriously injured. The language of Lord Durham is so clear upon this point, and the facts he states so elucidatory of the mischievous consequences of playing off the prejudices of two races against each other, that I cannot resist giving the following portion of the Report laid by his lordship before the queen:-

"I do not believe that the animosity which exists between the working classes of the two origins is the necessary result of a collision of interests, or of a jealousy of the superior success of English labour But national prejudices naturally exercise the greatest influence over the most uneducated, the difference of language is less easily overcome, the differences of manners and customs less easily appreciated The labourers, whom the emigration introduced, contained a number of very ignorant, turbulent, and demoralized persons, whose conduct and manners alike revolted the well-ordered and counteous natives of the same class The working-men naturally ranged themselves on the side of the educated and wealthy of their own countrymen When once engaged in the conflict, their passions were less restrained by education and prudence and the national hostility now rages most fiercely between those whose interests in reality bring them the least in

"The two races thus distinct have been brought into the same community, under circumstances which rendered their contact inevitably productive of collision. The difference of language from the first kept them asunder It is not anywhere a virtue of the English race to look with complacency on any manners, customs, or laws, which appear strange to them, accustomed to form a high estimate of their own superiority they take no pains to conceal from others They their contempt and intolerance of their usages found the French Canadian filled with an equal amount of national pride, a sensitive, but mactive pride, which disposes that people not to resent insult, but rather to keep aloof from those who would keep them under. The French could not but feel the superiority of English enterprize, they could not shut their eyes to their success in every undertaking in which they came into contact, and to the constant superiority which they were acquiring They looked upon their rivals with alarm, with jealousy, and, finally, with hatred. The English repaid them with a scorn, which soon also assumed the same form of hatred. The French complained of the arrogance and injustice of the English, the English accused the French of the vices of a weak and conquered people, and charged them with meanness and perfidy. The entire mistrust which the two races have thus learned to conceive of each other's intentions induces them to put the worst construction on the most innocent conduct, to judge every word, every act, and every intention unfairly; to attribute the most odious designs, and reject every overture of

treachery and malignity.

"Religion formed no bond of intercourse and union It is, indeed, an admirable feature of Canadian society, that it is entirely devoid of any religious dissensions Sectarian intolerance is not merely not avowed, but it hardly seems to influence men's feelings. But though the prudence and liberality of both parties has prevented this fruitful source of animosity from embittering their quarrels, the difference of religion has in fact tended to keep them asunder. Their priests have been distinct; they have not met even in the same church.

"No common education has served to remove and soften the difference of origin and language The associations of youth, the sports of childhood, and the studies by which the character of manhood is soften the difference of origin and language modified, are distinct and totally different. In Montreal and Quebec there are English schools and French schools, the children in these are accustomed to fight nation against nation, and the quarrels that arise among boys in the streets usually exhibit a division into English on one side, and French on the

As they are taught apart, so are their studies fferent. The literature with which each is the most conversant, is that of the peculiar language of each, and all the ideas which men derive from books, come to each of them from perfectly different sources The difference of language in this respect produces effects quite apart from those which it has on the mere intercourse of the two races Those who have reflected on the powerful influence of language on thought, will perceive in how different a manner people who speak in different languages are apt to think, and those who are familiar with the literature of France, know that the same opinion will be expressed by an English and French writer of the present day, not merely in different words, but in a style so different as to mark utterly different habits of thought This difference is very striking in Lower Canada, it exists not merely in the books of most influence and repute which are of course those of the great writers of France and England, and by which the minds of the respective races are formed, but it is observable in the writings which now issue from the The articles in the newspapers of colonial press each race, are written in a style as widely different as those of France and England at present, and the arguments which convince the one, are calculated to appear utterly unintelligible to the other

"The difference of language produces misconcep-tions yet more tatal even than those which it occasions with respect to opinions; it aggravates the national animosities, by representing all the events of the day in utterly different lights The political misrepresentation of facts is one of the incidents of a free press in every free country, but in nations in which all speak the same language, those who receive a misrepresentation from one side, have generally some means of learning the truth from the other In Lower Canada, however, where the French and English papers represent adverse opinions, and where no large portion of the community can read both languages with ease, those who receive the misrepresentations are rarely able to avail themselves of the means of correction. It is difficult to conceive the perversity with which misrepresentations are habitu-ally made, and the gross delusions which find currency among the people. they thus live in a world of misconceptions, in which each party is set against opinions, but by an actual belief in an utterly differ

ent set of facts.

The differences thus early occasioned by education and language, are in nowise softened by the inter-course of after-life; their business and occupations do not bring the two races into friendly contact and co-operation, but only present them to each other in occasional rivalry. They rarely meet at the mns in the cities; the principal hotels are almost exclusively filled with English and with foreign travellers; and the French are, for the most part, received at each other's houses, or in boarding-houses, in which they

meet with few English.

Nor do their amusements bring them more in contact. Social intercourse never existed between the two races in any but the higher classes, and it is now almost destroyed. I heard of but one house in Quebec in which both races met on pretty equal and amicable terms, and this was mentioned as a singular instance of good sense on the part of the gentleman to whom it belongs At the commencement of Lord Aylmer's administration, an entertainment was given to his lordship by Mr Papineau, the Speaker of the House of Assembly. It was generally understood to be intended as a mark of confidence and good-will towards the governor, and of a conciliatory disposition It was given on a very large scale, a very great number of persons were present; and of that number, I was informed by a gentleman who was present, that he and one other were the only English except the governor and his suite. Indeed the difference of manners in the two races renders a general social intercourse almost impossible.

"A singular instance of national incompatibility was brought before my notice, in an attempt which I made to promote an undertaking, in which the French are said to take a great deal of interest I accepted the office of President of the Agricultural Association of the district of Quebec, and attended the show previous to the distribution of the prizes I then found that the French farmers would not compete even on this neutral ground with the English; distinct prizes were given, in almost every department to the two races; and the national ploughing matches were carried on in separate and even

distant fields.

"While such is their social intercourse, it is not to be expected that the animosities of the two races can frequently be softened by the formation of domestic connections. During the first period of the possession of the colony by the English, intermarriages of the two races were by no means uncommon, but they

are now very rare.

"I could mention various slight features in the state of society, which show the all-pervading and marked division of the races; but nothing (though it will sound paradoxical) really proves their entire separation so much as the rarity, nay almost total absence, of personal encounters between the two Disputes of this kind are almost confined to the ruder order of people, and seldom proceed to acts of violence. As respects the other classes, social intercourse between the two races is so limited, that the more prominent or excitable antagonists never meet in the same room. It came to my knowledge that a gentleman, who was for some years a most active and determined leader amongst the English population, had never once been under a private roof with French Canadians of his own rank in life, until he met some at table on the invitation of persons

the other, not only by diversity of feelings and attached to my mission, who were in the habit of associating indifferently with French and English. There are, therefore, no political personal controversies. The ordinary occasions of collision never occur, and men must quarrel so publicly, or so deliberately, that prudence restrains them from commencing individually, what would probably end in a general and bloody conflict of numbers. Their mutual fears restrain personal disputes and riots, even among the lower orders; the French know and dread the superior physical strength of the English in the cities; and the English in those places refrain from exhibiting their power, from the fear of the revenge that might be taken on their countrymen, who are scat-

tered over the rural parishes.

"This feeling of mutual forbearance extends so far as to produce an apparent calm with respect to public matters, which is calculated to perplex a stranger who has heard much of the animosities of the province No trace of them appears in public meetings; and these take place in every direction, in the most excited periods, and go off without disturbance, and almost without dissent. The fact is, that both parties have come to a tacit understanding, not in any way to interfere with each other on these occasions; each party knowing that it would always be in the power of the other to prevent its meetings. The British party consequently have their meetings; the French theirs; and neither disturb the other. The complimentary addresses which I received on various occasions, marked the same entire separation, even in a matter in which it might be supposed that party feeling would not be felt, or would from mere pru-dence and propriety be concealed. I had from the same places, French and English addresses, and I never found the two races uniting, except in a few cases where I met with the names of two or three isolated members of one origin, who happened to dwell in a community almost entirely composed of the other. The two parties combine for no public object, they cannot harmonize even in associations of The only public occasion on which they ever meet, is in the jury-box; and they meet there only to the utter obstruction of justice."

With these grave obstacles her majesty's government have, at the present moment, to contend. It is well known to be the anxious desire of the Queen, that justice should be administered with entire impartrality to all classes of her majesty's subjects; that a faithful discharge of public duties, and exemplary conduct in private life, are the only means by which the honours and favours of the crown can be obtained, and the support of the British government secured. The old system of "Divide et Impera" has passed away, alike at home, and in the colonies; but a system which was founded in fear, and perpetuated by injustice, has necessarily entailed evils which render good government for all classes a matter of great difficulty. There has been no disposition on the part of the British nation to retain Canada in leading-strings; the feelings of nationality always so strong in English hearts, has prevented the growth

of petty jealousies, and taught them to look husbands, and affectionate fathers, add that with affectionate solicitude on the proceedings of a province which they have long seems to be the only requisite now wanting considered an important and integral part to the welfare of their highly-favoured counof the British Empire. the Imperial Legislature, therefore, freely in it, the self-denial, forbearance, and Chrisbestowed on Canada a more independent tian charity necessary to its attainment. constitution than was ever before given by any parent state to its colony, and the possession of the French, the form of gov-Canadians now possess perfect freedom in the management of their local affairs. Instead of seeking to maintain a superiority in the Colonial Legislature, the Anglo-Saxon would do well to recollect the evils which resulted after the Norman conquest of England from the dominance of a race, and the indulgence of strong prejudices and cherished antipathies. Ireland, too, offers another illustration of the injurious consequences attendant on political or social subjugation, and a proof that the continuance of such a state of things is, in the long run, alike injurious to the dominant and to the subjugated race, and is, evidently, incompatible with national liberty or progress.

The present is a most critical period for Canada: everything, under Providence, now depends on tranquillity being not merely temporarily restored, but established on a tholic religion, with all its immunities and satisfactory basis. Thus only can the extraordinary resources of the province be developed—the English capitalist induced to invest monies in projected railways and canals -and the respectable, intelligent, and orderloving class of emigrants to select Canada for the scene of present labour, the home of their families, and the country of their adoption. Great forbearance on all sides is absolutely essential, whether among political parties in England, or between those of Anglo-Saxon or of Norman descent-all are, in truth, citizens of the same state, with interests, which, to a great extent, are necessarily identical—their individual prosperity being closely allied with that of their common country, whose welfare must inevitably be impeded by their dissensions, and would be materially promoted by their cordial union. Many circumstances, but, above all, the growing influence of Christianity, and the extension of education founded on its principles, justify the hope that the Canadians, who have long been respected for their tried loyalty and exemplary conduct in a domestic sphere, may, ere long, prove their appreciation of the relative duties o public life—and to the high character they have long borne of faithful subjects, good

f peaceable and united citizens. The queen and try; and may heaven grant to all concerned

GOVERNMENT.-When Canada was in the rnment was a pure despotism. In 1774 he first British Act of Parliament was passed, fixing the boundaries of Canadamaking provision for the better government of this part of his majesty's dominions, and esting the authority in a governor, aided by a Council of not fewer than 17, and not more than 23 persons, who had power to frame ordinances, but not to levy taxes. except for making public roads, and erecting a few local structures. By this act the English criminal law was preserved; but it was enacted, that "in all matters of controersy, relative to property and civil rights, resort should be had to the rule and decision of the laws of Canada"-excepting, however, from this concession to French law, "lands which had been or should be granted in free and common soccage." The Roman Carights, was secured to those of the Canadians who professed that faith.

After an interval of 17 years, this act was followed by Mr. Pitt's, or rather Lord Grenville's Act, styled the Constitution of 1791, under the provisions of which, Canada was divided into Upper and Lower provinces.

Eastern or Lower Canada received by this act a constitution, consisting of a Governor and Executive Council of 11 members, appointed by the crown (similar to the Privy Council in England)—a Legislative Council appointed by mandamus from the king, forming the second estate, and at that time consisting of 15 members, but subsequently increased to 34, and a Representative Assembly, or third estate, composed of 50 members, and consisting of 4 citizens from each of the cities of Quebec and Montreal. -3 burgesses, viz., 2 for the town of Three Rivers, and 1 for William Henry, and the remaining number divided over the province as knights of the shire, representing 20 counties, into which Lower Canada was Population was partly made the divided. basis for regulating the division: thus a small and thickly-peopled territory on the banks of the St. Lawrence was found sufficient to form a county, and in the more

distant parts, large areas were included in the Parliament, which by the law was conof population necessary to a representative election. The unsatisfactory manner in which this division into 21 counties operated, from its having regard to population and not to area, was felt after a few years; and it was set aside by the provincial act of 9 Geo. IV., which subdivided Eastern Canada into 40 counties. The constitution of the Eastern province as then regulated, may be thus summarily stated.

The authority of the sovereign in Canada was limited solely by the laws of Great Britain, and by the capitulations of the province. The supreme legislative authority was vested in the crown and in the two houses of the Imperial Parliament: this authority being limited by the capitulations, and by its own acts; the most remarkable of which is the act 18 Geo. III. cap. 12, confirmed by 31st Geo. III. cap. 13, which declares that "no taxes shall be imposed on the colonies but for the regulation of trade, and that the proceeds of such taxes shall be applied to, and for the use of the province, in such manner as shall be directed by any law or laws which may be made by his majesty, his heirs or successors, by and with Council and Assembly of the province."

The Provincial Legislature consisted of the sovereign, acting by the governor-general of the province; of a Legislative Council of 34 members, appointed by the crown for life; of a House of Assembly, of 88 members, elected for 4 years by British subjects resident within the province, under a 40s. tenure. The constituency of Eastern Canada was very widely diffused-among half a million of people there were at least 80,000 electors, of whom nine-tenths were proprietors of the soil; several counties had from 4 to 5,000 electors, all of whom were landed proprietors. The total number of proprietors of real property in 1831, was 57,891; and of persons holding property not otherwise than real, 25,208.

No religious disabilities existed as to electors; but clergymen or Jews were not eligible as representatives. The Assembly was empowered to make laws for the peace, wel-

reign, assembled, prorogued, and dissolved vinces for securing the rights and liberties

one county, in order to obtain the amount vened once in every twelve calendar months. All questions arising in either of the two houses, were decided by the open voting of the majority of the members present. governor gave, withheld, or reserved for the further signification of the pleasure of the sovereign, the royal sanction to bills proposed by the two other branches. Laws assented to by the governor-general, must be disallowed by the crown within two years. The crown could not assent to any act or acts affecting the dues of the clergy of the church of Rome, or the established church of England within the province, or the provisions made for the same, or the enjoyment or exercise of any religious form or mode of worship, or creating penalties, burthens, disabilities, or disqualifications on that account, or granting, or imposing any new dues in favour of any ministers of any former mode of worship, or affecting the prerogative, touching the granting of the waste lands of the crown; until such acts shall have been at least 30 days before both Houses of the British Parliament, without either of the houses having addressed his majesty praymg him not to sanction the same.

In Western or Upper Canada, the governthe advice and consent of the Legislative ment had been administered since 1791 by a heutenant-governor, Executive and Legislative Councils, and a House of Assembly or Representatives, under regulations similar to those in Eastern Canada. The Executive Council consisted of six members chosen by the crown.

When the rebellion broke out in Eastern Canada, in 1837, the Sovereign and Parliament of England, by virtue of its authority, suspended the constitution of the province, (as stated in the history of the colony, p. 30), and the re-union of Eastern and Western Canada having been agreed to by the Parliament of Western Canada, and by the Council of Eastern Canada, Lord Sydenham framed the act of union, which was adopted by the Imperial Legislature. Under the provisions of that act the affairs of the colony are now conducted; and the executive authorities are subject to the regulations laid down by Lord John Russell in October 1839—as stated at pages 39, fare, and good government of the province, 40-by which "responsible" or constitusuch laws not being inconsistent with the tional government has been fully granted Act of 31 Geo. III., cap. 81. The elections to Canada. The act of union (c. xxxv., 3 were and still are conducted by open voting. and 4 Vic., 23rd of July, 1840), recites The governor, in the name of the sove- that for the good government of the prowas necessary to re-unite the two provinces and form one province, for the purpose of for the exercise of its powers; and all quesexecutive government and legislation; such tions are decided by a majority of voices of union to be declared by proclamation under the advice of her majesty's Privy Council. Various previous acts of Parliament were repealed, and the legislature of the United province was in future to be formed of lative Assembly of the province of Canada, one Legislative Council and one Assembly. The Legislative Council to consist of not may require, in her majesty's name, and by fewer than 20 persons, of 21 years of age, subjects of the crown, and summoned for life by the governor-general, under authority of the sign manual of the sovereign. Such Assembly in and for the said province. legislative councillor may resign, but if he the permission of her majesty, or of the of £10, annually. In Western Canada governor of the said province, signified by 41 electoral districts, containing 723,087 tion or acknowledgment of allegrance, obedience, or adherence to any foreign prince or power, or shall do, concur in, or adopt any act whereby he may become a subject Brockville, each one member. The North, or citizen of any foreign state or power, or whereby he may become entitled to turn each one member; each of the other the rights, privileges, or immunities of a counties of the province are represented by subject or citizen of any foreign state or one member. In Eastern Canada, 768,334 power, or shall become bankrupt, or take inhabitants return 42 members to the House the benefit of any law relating to insolvent of Assembly, from 40 electoral districts. debtors, or become a public defaulter, or be attainted of treason, or be convicted of felony, or of any infamous crime, his seat in such council shall thereby become vacant"

Any question arising respecting vacancies in the Legislative Council of the province of Canada, occasioned by any of the matters aforesaid, must be referred by the governor to the Legislative Council, to be brances. The Assembly is convened for a by the said Legislative Council heard and term of 4 years, and must be called together determined, but the person respecting whose once in each year; 20 members constiseat such question shall have arisen, or her tute a quorum, and the Assembly chooses its majesty's attorney-general for the said province on her majesty's behalf, may appeal the act of union it is declared "that within from the determination of the said Council in the province of Canada, her majesty shall such case to her majesty, and the judgment have power, by and with the advice and of her majesty given with the advice of her consent of the said Legislative Council and Privy Council thereon shall be final and conclusive to all intents and purposes.

time, by an instrument under the great seal of the said province, to appoint one member of the Legislative Council to be speaker his said late Majesty as are not hereby rethereof, and to remove him, and appoint pealed, or to any act of Parliament made another in his stead.

of all classes of her majesty's subjects, it the said Legislative Council, including the speaker, is necessary to constitute a meeting the members present except the speaker; when the voices are equal the speaker has the casting vote.

For the purpose of constituting the Legisthe governor, from time to time, as occasion an instrument or instruments under the great seal of the said province, has power to summon and call together a Legislative

The qualification for voters is property to absent himself from two successive sessions the yearly value of 40s. in the counties; of £5 of the legislature of the province, "without in the towns, or paying rent to the amount the said governor to the Legislative Council, inhabitants, return 42 members to the or shall take any oath or make any declara- House of Assembly; the city of Toronto sends two members; the cities of Hamilton and Kingston, each one, and the towns of London, Cornwall, Bytown, Niagara, and South, East, and West Ridings of York re-Montreal and Quebec return each two members, the towns of Three Rivers and Sherbrooke, each one, and every county one member.

The property qualification of a representative is the possession for his own use of £500, in lands or tenements, over and above all rents, charges, mortgages, and incumown speaker, who has a casting vote. By Assembly, to make laws for the peace, welfare, and good government of the province The governor has authority from time to of Canada, such laws not being repugnant to this act, or to such parts of the said act passed in the thirty-first year of the reign of or to be made, and not hereby repealed, The presence of at least ten members of which does or shall, by express enactment or by necessary intendment, extend 1766 Paulus Emilius Irving (President) to the provinces of Upper and Lower 1770 Heater T. Carmaba (President) Canada, or to either of them, or to the province of Canada; and that all such laws being passed by the said Legislative Council and Assembly, and assented to by her majesty, or assented to in her majesty's name by the governor of the province of Canada, shall be valid and binding to all intents and purposes within the province of Canada."

The members of the House of Assembly, are allowed by grants of the legislature, an indemnity of 10s. currency per diem, and 4. per league as travelling expenses from their places of residence, to where the sittings of the legislature are held. session of Parhament generally lasts three months, seldom more than four, and is held during the winter. The salary of the speaker of the House of Assembly is £900, voted annually by the Provisional Legislature.

The Legislative Council at present consists of about 45 members, of whom 12 were added by Lord Elgin, 6 by Lord Metcalfe, 5 by Sir C. Bagot, and the others nominated by Lord Sydenham. The crown has an unlimited power of nomination. Nearly half the Legislative Council consists of gentlemen of French origin. The Executive Council comprises 11 ministerial officers-including two secretaries, and two attorneys and solicitors-general for Eastern and for Western Canada—a receiver-general, inspector-general, president of committees, and commissioner of crown lands, and speaker, all appointed by the governor, but who must be possessed of seats in the House of Assembly in order to make them responsible to the people, and produce harmony between the executive and the legislature. The governor of Canada is governor-general of all the British possessions in North America, and commander-in-chief of all the forces there, but in the latter capacity he only acts ministerially.

Governors of Canada.

1663. Sieur de Mésy. 1665 Sieur de Courcelles. 1672. Sieur de Frontenac. 1682. Sieur de la Barre. 1685. Marquis de Denonville. 1689. Sieur de Frontenac. 1699. Chevalier de Callières. 1703. Marquis de Vaudreuil. 1726. Marquis de Beauharnois.

1747. Comte de la Galissonière. 1749. Sieur de la Jonquière.

1752. Marquis du Quesne de Menneville. 1755. Sieur de Vaudreuil de Cavagnal.

1765. James Murray.

1770. Hector T. Cramahé (President).

1774 General Guy Carleton. 1778. Frederick Haldimand.

1774. Henry Hamilton (Lieutenant-Governor). 1775. Henry Hope (Lieutenant-Governor). 1776. Lord Dorchester (Sir Guy Carleton).

1791. Colonel Clarke (Lieutenant-Governor).

1793. Lord Dorchester 1796, Robert Prescott

1799. Sir R. S. Milnes, Bart. (Lieutenant-Governor).

1805. Hon. Thomas Dunn (President). 1807. Sir J. H. Craig, K B. 1811. Hon. Thomas Dunn (President).

Sir George Prevost.

1815. Sir G. Drummond, G.C.B. (Administrator).
1816. John Wilson (Administrator).
Sir J. C. Sherbrooke.

1818. Duke of Richmond. 1819. Hon James Monk (President).

1820. Sir Peregrine Maitland.

Earl Dalhousie, G.C.B.

1824. Sir F. N Burton (Lieutenant-Governor).

1825. Earl Dalhousie.

1828. Sir James Kempt, G.C B. (Administrator). 1830. Lord Alymer. G.C B. (Administrator).

1835 Earl of Gosford.

1838. Major-General Sır John Colborne (Administrator).

Earl of Durham (six months).

Major-General Sir John Colborne (Administrator.

1839. Right Hon. P. Thomson (afterwards Lord Sydenham).

Provinces United.

1841. Lord Sydenham.

Major-General Sir R. Jackson (Administrator).

1842. Sir Charles Bagot.

1843. Sir Charles (afterwards Baron) Metcalfe.

1845. Earl Cathcart. 1847. Earl of Elgin and Kincardine.

Lieutenant-Governors of Upper or Western Canada.

1792. Colonel Simcoe. 1796. Hon. Peter Russell (President).

1799. Lieut.-Gen. Peter Hunter. 1805. Hon. A. Grant (President).

1806. Francis Gore.

1811. Major-Gen. Sir Isaac Brock (President).

1812. Major-Gen. Sir R. H. Sheaffe, Bart. (President). 1813. Maj.-Gen. F. Baron de Rottenberg (President).

Lieut.-Gen. Sir Gordon Drummond, K.C.B.

1815. Lieut.-Gen. Sir George Murray, Bart.

Major-Gen. Sir F. P. Robinson, K.C.B.

Francis Gore. 1817. Hon. Samuel Smith (Administrator). 1818. Major-Gen. Sir Peregrine Maitland.

1820. Hon. Samuel Smith (Administrator). Major-Gen. Sir Peregrine Maitland.

1828. Major-Gen. Sir John Colborne.

1836. Sir F. B. Head. 1838. Major-Gen. Sir G. Arthur.

THE LAWS now in force in Eastern or Lower Canada are:-lst. The acts of the British Parliament which extend to the colonies: 2nd. Capitulations and treaties:

3rd. The laws and customs of Canada,

founded principally on the jurisprudence of attorney-general, into the hability of lands the Parliament of Paris, as it stood in 1663, to be escheated, by reason of the non-perthe edicts of the French kings, and their formance of the conditions on which they colonial authorities, and the Roman civil were granted. The decision is given by a law: 4th. The criminal law of England, as verdict of a jury composed of twelve men, it stood in 1774, and as explained by subsequent statutes: 5th. The ordinances of the forfeited become re-vested in the Crown. governor and council, established by the Provincial Legislature since 1792. These laws are executed in her majesty's name, and in virtue of her commission and instructions, by the governor, or person administering the government, through the agency of several inferior officers, all of whom are appointed during pleasure. besides possesses all other powers and prerogatives generally, which her majesty may Appeal, a Court of Queen's Bench in Eastern and Western Canada, presided over by a chief justice in each province, and several puisné justices. There are provincial courts for trials of causes above £10.

There are also a Court of Vice-Admiralty. Quarter Sessions, and other minor tribunals for civil matters. The Court of Appeal, the highest legal tribunal in the province, consists of the governor, president ex officio, the chief justices of the province, all the members of the Executive Council, five of whom, including the president, are a competent quorum to hear and determine appeals from judgment pronounced in the Court of Queen's Bench in civil matters. Should the matter in dispute exceed £500 in value, an appeal lies to the queen and Privy Council; if below that sum, the decision of the Canadian High Court of Appeal is final.

The Canadian Court of Queen's Bench combines a jurisdiction similar to those of the Queen's Bench and Common Pleas at Westminster; it has distinct civil and criminal terms, and an appellate as well as an original jurisdiction; appeals lying, in certain cases, from the decisions of the provincial judges, or inferior courts, over each of which a puisné judge presides.

The duties of the Vice-Admiralty Court devolve, by commission, on a Judge Surrogate, who is also a judge of the Court of

Queen's Bench.

The Court of Escheats was created by the 10th sec. 6 Geo. II. c. 59; it consists of Commissioners appointed by the governor to inquire, on information being filed by the Court of Queen's Bench at Quebec, and 3 VOL. I.

summoned in the usual way; and the lands

The other courts being similarly constiact of the above year: 6th. The acts of the tuted to those of the same name in England. require no explanation. The police of the country is supervised by unpaid justices of the peace (the members of the Executive and Legislative Councils, the judges, &c., are everywhere justices of the peace ex officio). Trial by jury is universal in all The governor criminal cases; but in civil matters the appeal to this mode of trial in Eastern Canada is confined by statute to certain legally enjoy, and may delegate to him. cases, viz, the demand must exceed £10, The judiciary consists of a High Court of the parties being merchants or traders, and the subject matter grounded on debts, promises, contracts, and agreements, of a mercantile nature only; or else the action must arise from personal wrongs, to be compensated in damages; in all other causes the Bench are judges both upon the law and the fact; a very small portion of these cases are tried by jury.

The criminal law of Canada is in general conformity to that of England, with some provincial statutes not repugnant thereto. The admiralty and commercial laws are also English. In the civil law the proceedings are carried on both in the French and English languages, and it is not unusual to have half the jury French and the other

half English.

Latigation is frequent; there are about 200 lawyers in Eastern Canada on the rolls of the Court of Queen's Bench, who are solicitors and proctors as well as barristers: the notaries are conveyancers in Eastern Canada, and form a distinct class; they are about 300 in number. In the Quebec district alone there are 45 barristers, 43 solicicitors, and 138 notaries. In Montreal district-26 barristers, 60 solicitors, and 164 In Three Rivers district—72; notaries. making a total of 358 lawyers.

In Western Canada the laws are wholly English, and administered by a Court of Queen's Bench, presided over by a chief and 6 puisné judges. The Courts of Quarter Session and Requests are held as in England. There are about 500 unpaid magistrates.

The judicial establishment consists, in Eastern Canada, of a Chief Justice of a and Registrar. Justice and 4 Puisné of a Court of Queen's bate. There are Circuit Courts in Eastern Canada, and District Courts in Western Canada, In Western Canada there are 4 of the District Judges; in Eastern Canada the Judges appoint Bankrupt Commissioners from barristers of five years' standing, or the District Judges fulfil the duty of Commissioners.

Municipal Institutions of Canada.—It has been truly remarked, that "a more complete municipal system than that in operation in this province, has never been established. The powers conferred on each district are very great, but have been always exercised with discretion. The system was established by Lord Sydenham, to remove from the imperial and the provincial governments the odium which frequently attached to them, in consequence of the legislation and appropriations which affected particular localities. The corporations are composed of members from each township, so many townships forming a district. These form a council, presided over by a warden appointed by the crown. They meet quarterly in the respective court-houses of each district, and determine on all local improvements, roads, harbours, bridges, schools, paving, lighting, cleansing, &c. The vote for township councillor is every householder, and the qualification of a councillor is real estate value £500. The improvements in the respective districts that have been effected since their establishment are quite surprising. Their powers are great, but in no one instance have they been abused. It is in miniature the operation of the government of the respective States of North America, forming the general government of the United States of America.

The Canadians enjoy in its fullest extent the blessing of a constitutional government they have entire control over their own revenues, and may enact whatever laws are required for their country, provided only that such laws be not injurious to other parts of the empire. Let then the people of Western as well as of Eastern Canada

Puisné Judges; a Resident Judge at Three avoid all measures and proceedings calcu-Rivers; a Provincial Judge at St. Francis; lated to diminish the authority and governand 2 District Judges at Gaspé. There is ment that has sprung from themselves, and also a Vice-Admiralty Court, with a Judge abstain from forming associations, whether In Western Canada the under the title of "convention," "league." judicial establishment consists of a Chief or any other name, whose tendency is to control the provincial legislature. Bench; a Vice-Chancellor and Registrar of would do well to remember and act on the a Court of Chancery; and a Court of Pro- advice of a truly great man, George Washington, who, in his parting address to his countrymen, on the 17th of September, 796, when declining to be again elected Commissioners of Bankrupts, independent president of the United States republic, aderted to the obedience owed by every individual to the established government, which hey had contributed to form, thus emphatically warned the Americans against conventions," and stated their results as testified in the history of all nations :-

> " All obstructions to the execution of the laws, all combinations AND ASSOCIATIONS, under whatever plausible character, with the real character to DIRECT, CONTROI, COUNTERACT or AWE the REGULAR DELIBER-ATION and ACTION of the CONSTITUTED AUTHORITIES, are DESTRUCTIVE of this FUNDAMENTAL principle, and of FATAL TENDENCY. They serve to organise action, to give it an artificial and extraordinary force, to put in the place of the delegated will of the nation, the will of a party, often a small, but ARTFUL and ENTERPRISING MINORITY OF THE COMMUNITY; and, according to the alternate triumphs of different parties, to make the public administration the mirror of the ill-concerted and incongruous projects of faction, rather than the organ of consistent and wholesome plans, digested by common counsels, and modified by mutual interests.

> " However combinations and associations of the above description may now and then answer popular ends, they are likely, in the course of time and things, to become potent engines, BY WHICH CUNNING, AM-BITIOUS AND UNPRINCIPLED MEN WILL BE ENABLED TO SUBVERT THE POWER OF THE PEOPLE, AND TO USURP FOR THEMSELVES THE REINS OF GOVERN-MENT: destroying afterwards the very engines which have lifted them to unjust dominion.

Laws of the Feudal Tenures. - When Canada was first settled by the French, the feudal tenure was in full vigour on the continent of Europe, and was naturally transplanted by the colonizers to the new world. The king of France, as feudal lord, granted to nobles and respectable families, or to officers of the army, large tracts of land, termed seignories, the proprietors of which were and still are termed seignors; these possessions are held immediately from the Sovereign, en fief, or en roture, on condition of the proprietor rendering fealty and homage, on accession to seignorial property; and in the event of a transfer, by sale, or gift, or otherwise (except in hereditary succession), the seignory is subject to the payment of a quint, or fifth part of the whole This law might operate as well as most purchase-money, which, if paid by the purchaser immediately, entitles him to the rabat, or a reduction of two-thirds of the quint.

Quints are a fifth part of the purchasemoney of an estate held en flef, which must wife dies before the husband, the children be paid by the purchaser to the feudal lord, that is, the sovereign. If the feudal lord believes the fief to be sold under value, he can take the estate to himself, by paying compelled them so to do. the purchaser the price he gave for it, together with all reasonable expenses. The the wife puts into the communauté du bien: committee of the House of Commons in movable or immovable property, falling to their Report on the affairs of Canada, in her by descent, is a propre, and does not 1828, recommended the crown to relinquish merge in the communauté. Dower in Canada the quints. Reliefe is the rent or revenue of is either customary or stipulate. The first one year for mutation fine, when an estate is consists of half the property which the husinherited only by collateral descent. et ventes are fines of alienation of one-twelfth riage, and half of all the property which he part of the purchase-money paid to the may inherit or acquire—of this the wife has seigneur by the purchaser on the transfer the use for life, and the children may claim of property, in the same manner as quints it at her death. If they be not of age, the are paid to the sovereign on the mutation wife's relations, as guardians of the children, of flef; and are held en roture, which is an can take it out of the father's hands, and estate to which heirs succeed equally. Franc may compel him to sell his property to aleu noble is a fief, or freehold estate, held make a division. Stipulated dower is a subject to no seignornal rights or duties, and portion which the husband gives instead of acknowledging no lord but the sovereign. the customary dower. The succession to fiefs is different from that of property held en roture or by villainage. the small breadth of the farm on the bank The eldest son, by right, takes the chateau, of the river, and its great depth inland; and the yard adjoining it; an arpent of the the latter being often in proportion to the garden which joins the manor-house, and former as 60 to 1, namely, half an arpent the mills, ovens, or presses, within the broad in front of the St. Lawrence, or other seignory, belong to him; but the profit river, and 30 arpents in depth. arising from these is to be divided among the other heirs. Females have no prece- seigneur en route, and who are termed dence of right, and when there are only tenanciers or censitaires, are subject to certain daughters, the fief is equally divided among conditions, viz., a small annual rent, from them. When there are only two sons, the 2s. 6d. to 5s. (or perhaps more of late years) eldest takes two-thirds of the lands, besides for each arpent in front; to this are added the chateau, mill, &c., and the younger one- some articles of provision annually—such as third. elder claims half the lands, and the rest wheat, according to the means of the farhave the other half divided among them. mer, who is also bound to grind his corn at Censive is an estate held in the feudal man- the moulin banal, or the seigneur's mill, ner, subject to the seignorial fines or dues. where one-fourteenth is taken for the lord's All the Canadian habitans, small farmers, use, as mouture or payment for grinding. are censitaires. Property, according to the The lods et ventes form another part of the laws of Canada, is either propre, that is held seigneur's revenue: it consists of a right by descent, or acquits, which expresses being to one-twelfth part of the purchase-money acquired by industry or other means. Com- of every estate within his seignory, that munauté du bien is partnership in property by changes its owner by sale, or other means marriage; for the wife, by this law, becomes equivalent to sale: this twelfth to be paid an equal partner in whatever the husband by the purchaser is exclusive of the sum possessed before, and acquires after, mar- agreed on between him and the seller, and riage, and the husband is placed in the same if promptly paid, a reduction of one-fourth

eneral laws do, if both mari and femme died on the same day; but as that is seldom the case very unhappy consequences have arisen from it. For instance, when the may claim half of the father's property, as heirs to the mother; and the mother's reations have often persuaded, and sometimes

The dot or dowry, is the property which Lods band was possessed of at the time of mar-

The Canadian farms are remarkable for

Those farmers who hold land from the When there are several sons, the a pig or goose, or a few fowls, or a bushel of position in respect to the wife's dowry. is usually made, in the same manner as two-thirds of the quints due to the crown feudal burthens (quints, &c.) due to the seigneur, but is seldom exercised, called the pre-emption at the highest price offered, within 40 days after the sale has taken place.

All the fisheries within the seignories contribute also to the lord's mcome, as he receives a share of the fish caught, or an equivalent in money: the seigneur is also privileged to fell timber any where within his seignory, for the purpose of erecting mills, constructing new or repairing old roads, or for other works of public and gen-In addition to the foregoing eral utility. burdens on the farmer, he is, if a Roman Catholic, bound to pay to his curate one twenty-sixth part of all grain produced, and to have occasional assessments levied on him for building and repairing churches, parsonage houses, &c.

The duties of the seigneur to his tenants are also strictly defined—he is bound in some instances to open roads to the remote parts of his fief, and to provide mills for the grinding of the feudal tenants' cornhe cannot dispose by sale of forest lands, but is bound to concede them, and upon his refusal to do so, the applicant may obtain from the crown the concession he requires, under the usual seignorial stipulalations, in which case the rents and dues

appertain to the sovereign.

According to the Contume de Paris, the "Franc aleu roturier est terre sans justice ou seigneurie pour laquelle le détenteur ne dort cens, rentes, lods et ventes, ni autres redevances;" and the soccage tenure, like franc aleu roturier, leaves the farmer or landholder wholly unshackled by any conditions whatsoever, as to rents, corvees, mutation fines, banalete (corn grinding obligation), without in fact any other obligation than allegiance to the sovereign, and obedience to the laws. The quantity of land thus granted in Eastern Canada amounts to upwards of 7,000,000 acres-while under the seignorial grants nearly 11,000,000 acres are held by a large number of small proprietors.

The British government have long been desirous of converting the seignorial into soccage tenures, but nothing compulsory has been attempted. In 1825 an act was

are deducted on prompt payment. On such crown, and for granting their lands in free an occasion a privilege remains with the and common soccage to tenants, who were also to be released from their feudal burdroit de retrait, which confers the right of thens; which act, while it provided for the voluntary surrender by the seigneur of his rights, also gave the tenant in fief a power to claim exemption of burthens from the seigneur; who, on refusal, was subject to be impleaded in a court of law, and bound, on a commutation fixed and given, to grant his lands on soccage tenures. But this act has, with two exceptions, been of no effect; the Canadians are peculiarly attached to ancient customs—they contend that a conversion of tenure is equivalent to a conversion of law, as the descent by inheritance would be altered, and with it the whole body of the law applicable to real property. It is, therefore, probable that the old tenures, en roture, will remain, and those in soccage are not likely to be converted into the former, at least, by the present generation.

The Position and Extent of the Seignorial

Grants are stated to be.—

Territorial Division	Number of Seig- nories	Extent of Seignoris Grants		tion in the prices and prefer	
	Numbe	Arpents	Acres	Almost unfi cultration: Seignories Fiefs	
Quebec, including Anticosti and other Isles	79	5,639,319	5,656,699	2,600,000	
lands Three Rivers and	63	3,269,966	2,786,011	500,000	
St Francis, &c Gaspe and Isles	25 1	1,220,308 1,547,386	1,039,707 1,318,117	400,000 600,000	
Total	168	11,676,679	10,800,534	4,100,000	

Religion.—The prevailing form of Religion in Eastern Canada is that of the Romish church, whose clergy are educated in Canada, and have no civil or secular connexion with the pope; they are not paid by government, but have for their support the twenty-sixth part of all the grain raised on the lands of the catholics. Hay and potatoes are exempted from the charge, and if a catholic turn protestant, or sell his lands to a protestant, the estate is no longer subject to this moderate burden. The church is governed by a bishop (a Canadian born and educated), who receives, in addition to the rent of some lands of passed (6 Geo. IV. c. lix.) for the gradual little value, a stipend of £1000 per annum, extinction of the feudal rights, and enabling from Great Britain. The incomes of the seigneurs to release themselves from the curés average £300 per annum, by which they are enabled to live respectably, and officiating, whose names and stations are even hospitably; and so long as they confine themselves to their religious duties, they invariably meet with the respect which piety and philanthropy everywhere deserve. Great attention is paid to the observances of religion by people of every persuasion, in both Eastern and Western Canada.

The revenues of the Romish Church in

Eastern Canada are considerable.

Mr. Adam Thom, in the letters written under the signature of "Camillus," in 1839, stated their seignorial rights to extend over:

					8	sq. m	ıles
1.	The island and c	ity of I	I ontr	eal .		•	200
2.	The Lake of Two	o Moun	tains	and a	ugm	en-	
	tation	,					140
3.	St. Sulpice .						110
	Belong to	Seminar	y of]	Mont	real.		
4.	Chateauguay (Gr	rey Sist	ers)		-		54
				(2-			50
6.	Cote de Beaupré	(Semi	nary	or \$			900
7.	Isle aux Coudres	(Qu	eoec)	١,			10
8.	St. Jean (Ursal	of Thre	e Rive	ers)			20
	St Augustin (Re				of Qu	ebec	. 34
10.	D'Orsanville (Re	ligieus	8)	•		•	4

Besides the above-mentioned rights, extending over nearly a million of acres, these and other ecclesiastical institutions possess property of great value in Quebec and Montreal, and elsewhere.

Several religious communities exist, viz. the Hotel Dieu de Montreal, founded in 1664; the Congregation de Notre Dame de Montreal; the Hopital-general de Montreal the Hotel Dieu de Quebec; the Ursulines de Quebec, and the Hopital-general de Quebec all these establishments have novices and vostulants, and it is but justice to add, that the nunnerics of Eastern Canada are exemplary in their management, and remarkabl for the piety and charity of their inmates There are several missions, protestant and Roman catholic, among the Indians at their different stations, especially in Western Canada. There is no dominant church ın Canada.

The number and designation of the minis ters of the Christian religion in Canada, are stated in the official returns made to govern ment, to have been as follows in 1847:-

Church of England in Eastern Canada.—A lord bishop of Montreal, and an archdeacon of Quebec. Of parochial and other clergy in Quebec district, about 15; ditto of Three Rivers, 4; ditto of Montreal, 42; ditto of St Francis, 10; ditto of Gaspé, 3; the congre gations are, in number 180, and the ministers

furnished in the returns, 75. There are ther clergymen, who, though they have not any distinct charge, yet officiate in several laces within the province. One is a French protestant missionary.

In the interesting works issued by the truly Christian "Society for the propagation of the Gospel," it is stated, that the province of Canada was first formed into a diocese in the year 1793, under the episcopal superintendence of Dr. Jacob Mountain. In 1826 the Hon. Charles Stewart, the devoted missionary of St Armand, succeeded to the bishopric of Quebcc-and when he was compelled by illness, brought on by his many apostolic labours and journeyings, to return to England in 1836, Dr. G. J. Mountain was consecrated for the administration of the diocese, under the title of bishop of Montreal-which title he still retainsthough the diocese is properly called the diocese of Quebec. This enormous see was divided in the year 1839, when archdeacon Strachan was raised to the bishopric of Toronto, comprising the province of Upper Canada, or, as it is now called, Western Canada.

The diocese of Quebec runs along a narrow strip of land of 600 miles in length, on both banks of the St. Lawrence, and contains an area of 200,000 square miles. The population is estimated at 650,000, about two-thirds of whom are French Roman The number of English clergy catholics. is between 70 and 80.

Church of England in Western Canada.—A lord bishop of Toronto, 2 archdeacons, and 116 parochial clergy, with an equal number of congregations scattered throughout the different districts; of the 116 parochial ministers, 51 are regularly inducted rectors. In addition to the regular station services, almost every clergyman has two or three out services, some being several miles from the chief station. Parsonage houses are increasing by means of private endowments, and by the aid of the Church Diocesan Society; the glebes average about 400 acres (of wild land chiefly) attached to each rectory.

The churches in large towns are spacious; in the districts they contain generally from 300 to 600, and are well attended. Some of the clergy receive allowances from government; others from the "Society for the propagation of the gospel in Foreign Parts," and others are supported by the voluntary contributions of the parishioners.

The Roman Catholic Church in Eastern

600,000.—Montreal district, 2 bishops, 7 vicars-general, and 191 priests. Quebec 1,291; bible christians, 270; disciples, 336; district, an archbishop, a bishop, 6 vicarsgeneral, and 145 priests. Three Rivers district, 44 priests. Gaspé district, 16. Total, 1 archbishop, 3 bishops, 13 vicars-general, and 379 priests, exclusive of teachers at various colleges.

The Roman Catholic Church in Western Canada consists of 2 bishops, a coadjutorbishop, 1 archdeacon, 1 rural dean, and 56

the bishop of Quebec, and a sum of about £1,666 is paid by government, to the Roman catholic priests in Western Canada annually.

The Presbyterian Church of Canada, in connexion with the church of Scotland, has

6 presbyteries, and 57 ministers.

The Free Presbyterian Church of Canada-Seven presbyteries, and 51 ministers.

The United Presbyterian Church of Canada. Five presbyteries, and 33 ministers Total, 141 ministers in East and West Canada.

The Wesleyan Methodist Churches in Canada, are divided into 6 districts, and have 179 ministers. The same persuasion of the New Connexion, have 37 ministers; the Conregational denomination, 34: the Baptists. 08 ministers.

The relative numbers of each religious persuasion are given in the section on popu-

The variety of religious sects in Western Canada, will be seen by the following general numerical return of the several religious bodies in Upper Canada, for the year 1839:

Church of England, 61,788. Methodists British connexion, 15,795; episcopal, 7,146. Canadian Wesleyan, 2,210; primitive, 106; under the general term of methodists without distinction, 19,740. Presbyterians Church of Scotland, 31,448; seceders from the Church of Scotland, 1,507; independents 777, congregationalists, 701; noncomformists, 18; under the general term of presbytemans, without reference to sects, 31,308. reference to distinction, 4,626; open communion, 1,088; close communion, 3,579 free-will, 621. reformed church, 44; menonists, 2,674

Canada consists of three divisions; there restorationalists, 18; unitarians, 59; latitudiare about 300 churches to a population of narians, 6; deists, 4; free-thinkers, 75; Irvingites, 188; reformers, 13; christians, mormons, 240; other denominations, 6,243; no profession, 27,301.

The payments for ministers of religion out of the public funds, are as follows :-

The Church of England in Western Canada receives £6,668 (from the clergy reserves); this sum provides £100 to £170 a year, for 36 clergymen. Eleven presbyterian ministers, in connexion with the Church of Scotland, receive £641. Nine The government allows £1000 a year for ministers of late synod of Western Canada, £572. The Roman catholic clergy in Western Canada, £1,500. Eight presbyterian ministers in Eastern Canada, receive £285, and the Roman catholic bishop of Quebec, £1000. The Church of England in Eastern Canada receives £3,020. The total charge for the ecclesiastical establishment of Canada for 1847, was £13,725; of this sum, £3,620 for the bishop and ministers of the Church of England in Eastern Canada, is paid from the military chest, and ceases with the lives of the present parties. stipend of £1000 a year to the Roman catholic bishop of Quebec, and £100 a year to the presbyterian minister at Argentcuil. are paid from the military chest.

> EDUCATION. — Laudable and efforts are now making in Canada, for the education of the people, in Western Canada especially. A new school act was brought into operation in 1847, and the returns under it are yet imperfect for 1847, but the following details are taken from the report of Mr. E. Ryerson, the chief superintendent

of schools:

School Sections, are the smallest municipal school divisions provided for by law, each consisting of such a section of the country as is considered suitable for a school. In each section three persons are elected trustees by the householders, and constitute a corporation for the management of the common school affairs of such section. One of the members of the school corporation retires from office each year, so that Roman catholics, 29,562. Baptists, returned each trustee is elected for three years. Or under the general term of baptists, without such schools in Western Canada, there are 2727; from 327 sections, no returns received; number of qualified teachers, 2812; number Lutherans, 2,283; Dutch of teachers without certificates, 216. 3028 teachers, 2356 were males, and 663 tunkers, 925; Moravians, 7; quakers, 4,166 females. Average yearly salaries of teachers society of peace, 14; universalists, 416; £37; number of pupils in the section schools 124,829, of whom 65,575 were boys, tributed over 36 counties in Eastern Canada. and 55,254 girls. Upwards of 295 different authors, or text books are in use in these schools, viz., in spelling 13: reading 107: arithmetic 35; geography 20; history 21; grammar 16; natural philosophy 7; chem-1stry 5; geometry 2; mental philosophy 3; rhetoric 3; book-keeping 5; botany 2; algebra 2; natural history 1; physiology 2; composition 1; penmanship 4; moral philosophy 2; surveying 3; mensuration 2; declamation 2; dictionaries 4; &c.

Book-keeping is taught in 523 schools: mensuration in 294; algebra in 144; elements of natural philosophy in 77; Latin and Greek in 41; and French in 60 schools: 41,686 pupils study arithmetic; 13,743 English grammar; 10,563 geography; 45,467 writing. The bible and testament are used in 1782 schools,—nearly twothirds of the common-schools in Upper Of 2572 school-houses, 49 are brick, 84 stone, 1028 frame, and 1399 log. 1403 schools are freehold, 697 leased, and 171 rented: 699 are in good repair, 817 in ordinary, 347 in a bad condition: 1705 have only one room, 98 more than one room: 1125 are suitably furnished with desks, seats. &c. The total amount of council assessment for 1847, was £22,955; collected by trustees' rate-bills £30,543; legislative grant £21,000. The total amount of money derived from all sources, and expended for the payment of salaries of common school teachers, for 1847, was £77,599. This does not include the moneys expended for the erection, repairs, furnishing, and warming of school-houses, &c. Upper Canada expends of the public moneys, for the common school education of little more than half a million of people, as much as is spent in Ireland for eight million of people.

In Western Canada there are 48 colleges, academies, and high schools. The "Blue Book" for 1847 states the number of school sections for that year, in Western Canada, at 2925; schools reported 2589; children between 5 and 16 taught, 101.912. lative school grant £20,851; amount assessed by municipal council £21.871. teachers from school fund £38,521; from rate-bill £29,385; total £67,906.

In Eastern Canada the number of schools under the control of the commissioners for six months, in 1847, was 1611, and there were 21 dissentient; number of children educated 60,685. The allowances for six months were £14,500. The schools are dis-

There are 65 colleges, academies, and high schools.

The votes and grants for education, in 1847, were, in Eastern Canada, £38,888, of which the Jesuit estates yielded £4567. The amount of £32,978 was voted by the legislature for common schools, and £1352 for different colleges in Eastern Canada. The educational votes for 1847, by the anadian legislature, for Western Canada, amounted to £28,845, of which £23,270 was for common schools.

The lands granted to the Jesuits by the French government, and which lapsed to the British crown on the demise of the last of the Jesuits, in 1800, have been granted for purposes of Education. Under a very bad system of management, these lands did not yield from 1800 to 1831, more than £50,000.

According to a return of the institutions for the instruction of youth in Eastern anada, it appears that there are the following school foundations :-

'PROTESTANT.—1 Royal Grammar School, Quebec; 2001 a year, and 901 a year school-house rent, from Jesuits' estates Twenty free scholars, 11 pay for their tuition, all day-scholars. Terms: under 19, £8, above 12 and under 13, £10 per an.; above 13, £12 per an. French and English taught; course of instruction as in the grammar schools in the United Kingdom.

"2. Royal Grammar School, Montreal; £200 a year, and £54 a year school-house rent, from Jesuits' estates. Twenty free scholars admitted, 15 scholars pay for their education all day scholars. Terms highest £10; lowest £8 per an; instruction as in grammar-school at Quebec, and this school is in possession of an extensive apparatus for experiments in natural philosophy.

"3. Seminary at Chambly; contributions of stu-dents; a private institution lately established under the patronage of the Lord Bishop of Quebec. Board and tuition according to age of student, £40, £50, and £75 per an.; day-scholars £15 and £20 per an. There are 17 boarders and 9 day-scholars Those who pay £75 per an. are young men studying for holy orders, and others finishing their education.

"CATHOLIC -1. Seminary of Quebec; no revenues specifically appropriated to the purposes of education, but possessed of several estates made many years ago, computed at £1,249 a year, besides large contributions in grain, and the lods et ventes on mutations of property, which amount to a considerable sum. Attended by 188 students; the terms for tuition and board £17 10s. per an.; for tuntion only, £1 per an. Poor children instructed gratis. The Seminary of Quebec was erected by letters patent of the French crown, dated in April, 1663.

"2. Seminary at Montreal; in possession of estates valued many years ago at about £2,000 a year, besides large contributions in grain, and lods et ventes on mutations of property, which in the seignory of Montreal, comprehending the whole of the town, must amount to a large sum. Attended by 260 students: terms for board and tuition, per an £21, for tuition only, £1: 15s. Instruction as at the Seminary of Quebec. The ecclesiastics of St. Sulpice, at Paris, were authorized to establish a semmary at Montreal, and allowed to hold the island of Montreal in mortmain, by latters patent of the French crown, dated in May, 1677.

"Seminary at Nicolet; supported principally by private contributions The number of students, or

the price paid for tuition not known.

Seminaries at St. Hyacinthe, at Chambly, and at College of St. Ann, which receive legislative grants."

In several of the colleges there are professors of divinity, medicine, anatomy, philosophy, mathematics, &c., and the chairs are ably filled.

There is a Quebec literary and historical society, and a museum of natural history at Montreal; a medico-chirurgical society, an agricultural association, a mechanic's insti-

tute. &c.

THE PRESS.—This powerful adjunct of civilization, and protector of individual as well as of national liberty, is making rapid progress in Canada; where the journals are unstamped, the paper without an excisable duty, and the advertisements exempt from I have no separate return of the increase of the press in each province, but in both together, the number of newspapers was, in 1827, 17; in 1828, 20; in 1829, I may add that the present number is about Western Canada. papers; some of the journals in Eastern larcenies, assaults, and trespasses were-Canada are entirely in the French language. Both the English and French papers are conducted with ability, but, as may be expected, evince strong party feelings. They are well supplied with advertisements, and, independent of their value as political engines, are considered good commercial speculations.

Crime.—The absence of extreme poverty, the certain reward of industry, and the extension of Christian education, are sure preventives of crime. From 1828 to 1838, the number of prisoners in the gaols of Eastern Canada, for all offences throughout the year, did not average 300 persons annually. The returns to the Board of Registration and Statistics for Eastern and Western Canada, in 1849, shows the state of crime from 1841, to 1847, inclusive The returns are not very million.

Commitments	1841 1842 18 43 1844 184 5 1646 1847
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Offences against the Person 4 Murder Manslaughter Rape			13 1 3 4			
Offences against Property Larceny Forgery Horse stealing Felony Burglary Unclassed Crimes.		101 65 1 11	132 81 6 8 11	92	2	4
From Eastern Canada) , Western Canada)		30 105	31 118	52 105	17	38
Grand Total	71	135	149	157	135	107

These returns are exclusive of military; the total commitments for seven years, endng 1st of October, 1847, were 813, of whom 57 or 7 per cent. were women. The average convictions, for crimes against the person, were 10.58 per cent: not classed, 2.62; for arceny, 54.28; for other crimes, 32.52. The total number of inquests was 1021, viz., The number of males, 823, females, 191. accidents, on which inquests were held, was 132; lunatics, 20; apoplexy, 23; drowned, 329; burned, 29; intemperance, 81; suicide, 32; exposure, 15; exhaustion, 9; found dead, 37; visitation of God, 196; murder, 22; child-murder, 5; manslaughter, 5; poi-27; in 1830, 30; and in 1831, 37. I think soned, 1; suffocation, 12; strangulation, 2; shot by accident, 4; sudden death, 9; by 50, namely 20 for Eastern and 30 for lightning, 2. The trials before the magis-There are several daily trates, in quarter sessions, in 1847, for petty

Districts	•	Quarter Ses	Under Tres- pass Act		
	Tried	Convicted	Acquitted	No	Fines
Eastern Canada Western Canada	366 375	244 195	122 180	265 2,526	£396 2,316
Total .	741	439	302	2,791	£2,712

An excellent penitentiary has been estab-

lished for the whole province.

Mr. Sheriff Thomas, of the Gore district, who has paid considerable attention to crime in Canada, in a letter of the 9th of March, 1849, says, "I am warranted in laying it down as an incontrovertible fact that crime in this portion of the globe is almost entirely engendered by dissolute habits." Drunkenness appears in all young communities to be a prevailing crime, and there is no prospect complete, but they show a limited amount of success in our colonies for any class of of crime in a population of one and a half immigrants, unless they abstain from the abuse of intoxicating liquors.

MILITARY DEFENCE.—There is an effective militia in Eastern and Western Canada to the number of about 260,389 men.

By the militia Act, every able-bodied male inhabitant, from 18 to 60 years of age, after six months' residence, is hable to serve in the militia, unless specially exempted by law; the exceptions embrace the clergy, civil and military officers of his majesty's government, physicians, surgeons, schoolmasters, stewards of religious communities. students in colleges and seminaries, notaries, land-surveyors, ferrymen, millers, &c., and persons who had served as officers of militia previous to the act. The officers are appointed by the government; the qualification for those above the rank of captain being a bona fide possession of an estate yielding £50 currency per annum; half the sum qualifies for a captain's or subaltern's commission. There is an annual muster by companies (29th June) throughout Eastern Canada.

The militia abstract of Eastern Canada for 1847, shows, according to the returns, 36 regiments, consisting of 173 battalions, and 137.769 men.

In Western Canada there are 34 regments of militia, comprising 166 battalions and 122,620 men; to this force is attached 1 company of cavalry, 11 of artillery, and 1 of rifles. The whole force of Eastern and Western Canada is 260,389 men.

The commissions issued since the reorganization of the force, have been:—

Officers.	Eastern Canada	Western Canada	Total.
LieutColonels	175	157	334
Majors	237	122	359
Captains	1,431	1,002	2,433
Lieutenants	1,590	985	2,575
Ensigns	1,346	921	2,267
Staff	439	277	716

There is an adjutant-general and a de-

puty-general of militia.

The regular and provincial troops in Canada in 1847, were, royal artillery, officers 35, men 574; royal engineers, 31; 1 battaion H.M. 20th, officers 22, men 601; reserved battalion, officers 15, men 527; H.M. 23rd, officers 19, men 575; H.M. 71st, officers 17, men 561; H.M. 77th, officers 23, men 569; H.M. 93rd, officers 16, men 501 2 battalions rifle brigade, officers 14, men 305; reserved battalion, officers 6, men 268 royal Canadian rifles, officers 60, men 1,669. There was also a part of the queen's light

dragoons, and the 1st and 2nd troop of the Montreal cavalry. The principal military stations are Quebec, Montreal, St. Helens, Kingston, Toronto, Niagara, London, Isle aux Noix, and Amherstburg.

The Canadian naval force, consisted in 1847, of 1 steamer of 75 tons, on Lake Ontario, and 3 gun-boats, hauled up: on Lake Erie 1 steam vessel 406 tons; and on Lake Superior 1 steam-vessel of 210 tons, all in commission.

Canada possesses ample means within tself for defence against foreign aggression: Quebec has been long deemed impregnable. and is well supplied with military stores; Montreal and Kingston are strongly protected; Toronto is secure against surprise; the forts along the frontier are in good order; the naval and military establishment on the bay of Pentanguishene might speedily be rendered effective: the communication between Eastern and Western Canada, by the Rideau canal, exempts traffic from border annoyances; and a dense population (men with brave hearts and strong arms) along the St. Lawrence river and the great Lakes, combine, with other circumstances, to secure Canada from the danger of invasion. The Canadians have no extensive sea-board to protect; no cities on the Atlantic open to assault or pillage; no slaves within their territory ready to burst their bonds and carry slaughter and desolation throughout the land. The conqueror of Canada must first capture Quebec, and possess a navy paramount on the ocean. It has been admitted that 100,000 troops would not be sufficient for the subjugation of Eastern and Western Canada. No European nation could, therefore, make the attempt; and if the Canadians are true to themselves, and desire to continue an integral portion of the British empire, they need not fear the hostility of the adjacent republic, with whom, however, it is undoubtedly both their duty and their interest to cultivate friendly relations, which it is to be hoped the good feeling of the citizens of the United States, as well as their knowledge of the evils war ever brings with it, especially to a commercial nation, will induce them cordially to recriprocate. By the mutual exercise of a little Christian forbearance both countries may be spared the harassing anxieties and protracted feuds arising from border hostilities and internecine strife, and continue to be distinguished by the rapid progress in civilization which peace only can maintain.

CHAPTER V.

INDUSTRIAL STATE OF EASTERN AND WESTERN CANADA, PRODUCTIONS, PROGRESS OF THE PROVINCE, INTERNAL AND MARITIME COMMERCE.

Canada for 1844 and 1848 are very imper- ing facts:—

THE industrial state, and progressive accu- fect, owing to the absence of any census mulation of property in the province, will be in these years. In the year 1831 there was seen by an examination of the produce of a complete return from each county; an each district. The returns for Eastern abstract of which shows the following lead-

Agricultural Produce, Cattle, Mills, &c., of each District in Eastern Canada in 1831.

Classification					Quebec	Montreal	Three Rivers	Gaspe	Grand Total in 1831.
Area in square miles					127,949	54,802	15.823	7,389	205,963
Acres or arpents of land occupied				:	1,686,047	2,529,8541	629,902	136,214	3,981,793
Acres or arpents of improved land .		_			562,7684	1,231,300	253,447	18,687	2,066,963
Produce raised during the year 1830 —	•	•	•	•	,,	-,,		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Minots of wheat	_	_	_		911,887#	2,098,982	383,5441	10,342	3,404,756
Minots of peas	•	•	•	:	126,821	801,717	55,300	920	984,758
Minots of peas	•	•	•	:	798,133}	1,911,861	426,7701	5.520	3,142,2744
Minots of barley	•		•	:	92,742	275,651	21,417	4,983	394,795
Minots of barrey	•	•	•	•	36,7441	171,962	25,441	318	234,465
Minots of Indian corn	•	•	•		481	313,341	25,5541	256	339,6331
Minots of potatoes	-	•	•		1,695,853	4,221,802	910,295	529,465	7,857,416
Minots of buck wheat	•	•	•		8,013	68,8554	28,943	237	106,050
Neat cattle	•	•	•	•	104,796	229,746	48,725	5,411	388,678
		•	•	•	26,213	76,057	13,739	677	116,686
Horses	•	•				70,007	71,458	8,980	543,343
Sheep		•			152,382	310,523			
Hogs	•	•			74,515	174,447	39,776	6,409	295,137
Laverns or houses of public entertainment	٠	٠	•	•	311	640	78	6	1,035
Stores where spiritous liquors are sold .		•			251	483	112	11	857
Grist mills		•			94	235	60	6	395
Saw mills					348	251	135	8	787
Oil mills			•		2	9	3		14
Fulling mills					35	47	15		97
Carding mills					29	46	15		90
Iron works					43	37	22	1	103
Trip hammers					2	14	2	١	18
Distilleries					4	56	10	١	70
Pot and pearl ash manufactories .					5	462	22		489
Maunfactories of any other sort containing	any	mach	inery			58	5		64

The Reporter of the "Board of Registration and Statistics" in Canada, remarks that the census returns of 1831 bear evidence of having been compiled with the greatest care and attention, but the great lapse between that period and 1844, when the next census was taken, renders it very difficult to arrive at any fixed conclusion as to increase.

The produce of Eastern Canada is thus stated comparatively for 1831 and 1844-

	Pro	duce.			Census, 1831.	Census, 1844.
Wheat					Bushels.	Bushels.
	•	•		•	3,404,756	942,835
Peas		•			948,758	1,219,420
Oats	•				3,142,274	7,238,753
Barley	•	•	•	•	394,795	1,195,456
Rye .		•	•		234,529	333,446
Indian C			•		339,633	141,008
Potatoes					7,357,416	9,918,869
Buckwh	eat	•			106,050	374,809

This shows a great falling off in the production of wheat. The produce for 1844, without any deduction of seed, would only furnish 188,567 barrels, or only one barrel for every three inhabitants.

The whole produce, in 1844, exclusive of potatoes, was 11,445,727 bushels, and allowing that two-thirds of the cultivated lands were under potatos and fallow, it would give an average crop of 12+ bushels per acre of all grain for the remainder. In 1831, the same allowance being made, the average crop would be 12½ bushels, while Mr. Bouchette for 1827 makes it 78% bushels, exclusive of 184,659 bushels of mixed grain. The neat cattle in 1844 were, in number, 469,851; horses 140,432; sheep 602,821; swine 197,935.

In 1844—Of the 76,440 proprietors of real estate, 15,188 held their lands in "free and common soccage," and the land so held

amounted to 1,706,993 acres, of which 540,256 were cultivated. Those held under Indian and other leases comprised 169 persons, occupying 25,598 acres, of which only 5,918 acres were under cultivation.

Houses, Manufactories, &c., in Eastern Canada in 1831 and 1844.

	1831.	1844	In- crease	De- crease
Houses inhabited	82,437	108,794	26,357	
, building .	1,458	1,652	194	
vacant	1,542	4,115	2,573	_
No of hives of bees	no return	7,898		
Lbs of maple sugar		2,272,457	_	=
No of taverns	1,035	1,052	17	_
Stores where liquors	-,	_,,,,,		
are sold	857	808	١	49
Grist mills	395	422	27	
Run of stones	not given	844		34
Oatmeal mills	-	108	l	I
Barley "		45	=	l
Saw " · · ·		911	_	!
Oil "	14	14	_	_
Fulling "	97	153	56	l
Carding "	90	169	79	
Thrashing "	not given	469	1 -	1
Paper "	-	8		l
Iron works	103	69	l	34
Trip hammers	18	18		1 -
Nail factories	not given	6		l
Distilleries	70	36	l	34
Breweries .	not given	30		1 =
Tanneries .	3	335		1
Pot and pearlash fac-		1		
tories	489	540	51	l
Other factories .	64	86	22	
	1	1	1	1

The census of 1831 gives, of land in culture, 2,065,913 acres; and the census 1844, 2,802,317 acres.

Taking the two last census as being authentic, we find that the increase was 35 6 per cent., while the increase in population was exactly similar, being 35 per cent. The number of landed proprietors in 1831 was 57,891, being on the average about 36 acres to each; while in 1844 the proprietors amounted to 76,440, or about 36½ acres each; this shows that the state of agricul ture in Eastern Canada must have been sadly neglected, and that it is only followed far enough to give an actual sustenance to the cultivators.

The fisheries of Eastern Canada are very valuable, but have not yet been turned to much account; the whole amount of fish and oil taken does not exceed in value £100,000 1-year. Gaspé Fishery and Coal Mining Company has been incorporated in London and in Canada; and in February, 1848 capital to the amount of £58,307 had been actually paid up on account of the company and shares to the value of £17,474 had been accepted by the Vendors of Estates in Gaspa and County of Bonaventure, of the value of £40,698, as part payment, and representing

ash. The company has invested above £30,000 in improving their estates, in building a mill, shops, and stores, in clearing land, in the erection of an extensive "Beach," or fishing establishment, in constructing vessels and boats, &c.

Timber, lumber, and ashes constitute the rincipal exportable produce. In the neighbourhood of Quebec £1,200,000 has been expended in lumber and saw mills. The ron works are carried on to a great extent

St. Maurice in the district of Three Whiskey is largely distilled at Montreal; there are several soap and candle manufactories, a manufactory for cloth, and about 20,000 domestic looms in East-The quantity of fulled cloth rn Canada. roduced in Eastern Canada is about 800,000 ards; of linen or cotton cloth, 1,000,000 yards; of flannel or woollen, 700,000 yards: he quantity of sheep wool annually produced, about 1,500,000 lbs. The etoffe du pays is a gray homespun cloth, made of mixed wool, and forms the substantial warm long coat usually worn by the habitan or anadian farmer. Worsted stockings and so ks, red caps, coloured sashes, mittens, ined with blanketing or harc skins, carpeting and mats, are made in every household. Excellent leather is prepared throughout the province; soap and candles are manufactured to some extent; the production of linseed oil is rapidly increasing; cordage and paper are of good quality; excellent ale and beer are brewed for domestic use, and for export to the West Indies. The cider, after being concentrated or frozen, separated from the icy or aqueous part, forms an excellent beverage.

In Western Canada the energy of the Anglo-Saxon race is markedly contrasted with the supineness of the French Canadians—who, although in possession of Eastern Canada for more than a century before Western Canada was colonized, are far behind their industrious brethren in the western division of the province—whose progress and prosperity will be best seen by an examination of the following official return:—

In less than a quarter of a century the population was augmented from 153,627 to 723,832, i. e. more than four-fold; the cultivated lands and houses five-fold; the uncultivated assessed land three-fold; horses and cows five-fold; oxen and other cattle four-fold; saw mills four-fold; the number of grist mills has been doubled; and the additional stones increased seven-fold.

TABULAR STATEMENT

Showng the Annual Amount and Value of all Articles Assessed for Local Taxaton in Western Canada, under the several Assessment Laws of that Province, with its Population at various periods.

	-	Lands.		Houses of	Grest Mills.							1		Car-	Amount of	Gross
Yean	Years Population	Uncultrated Assessed Value,	Cultivated Assessed Value, £1 per acre	all kinds, except Shanties	Num- ber.	Addı- tuonal run of stones	chants'	Store- houses	Ногвев.	Oxen.	Milch Cows	Young Cattle	Saw	rages kept for pleasure	Assessed Value of Property	Amount of all Local Taxes.
1095	168 097	Acres 9 500 304	Acres 535.212	8.876	232	17	456	46	22,589	23,900	51.216	23,501	394	587	£	10.235
1826	163,702	2,641,725	614,234	9,732	250	98	487	22	24,095	26,580	61,954	24,806	422	289	2,409,084	
1827	176,059	2,826,070	632,607	9,889	262	25	496	51	25,520	29,128	67,349	27,918	460	750	2,442,847	
1828	261,060	2,977,807	678,618	10,183	274	86	248	89	27,303	30,879	67,945	29,527	516	898	2,579,083	
1829	196,704	3,008,777	717,552	11,291	506	102	1 09	22	28,388	33,451	160,62	34,844	535	883	2,735,783	
1830	210,437	3,244,410	775,014	12,082	273	121	248	91	30,777	33,770	80,909	33,396	555	986	2,929,269	
1831	234.681	3,570,389	818,432	13,605	291	135	757	95	33,197	36,057	83,519	35,194	533	1,111	3,143,484	
1839	261,080	3,799,014	916,173	14,550	320	152	7.8	90	36,601	38,941	91,676	35,250	671	1,203	3,415,822	
1833	296,870	4,116,253	981,955	16,446	307	173	1,025	105	40,249	41,870	95,042	36,089	723	1,421	3,796,040	
1834	320,693	4,171,995	1.034.816	16,771	328	192	957	123	41,866	42,445	99,474	36,769	788	1,409	3,918,712	
1835	336,469	4,476,368	1,208,508	18,488	352	199	985	117	47,724	46,066	109,605	39,329	753	1,495	3,880,994	
1836	372,502	4.807.406	1,283,133	20,951	356	227	1,043	133	54,616	48,929	120,584	44,698	805	1,720	4,605,103	
1837	396,721	4,736,236	1,453,556	22,057	366	233	1,198	117	57,170	49,347	123,028	48,598	98	1,627	4,431,098	
1838	385,824	4,353,890	1,206,493	19,513	828	251	917	66	52,732	38,577	109,991	42,514	774	1,467	4,282,544	
1839	407,515	5,113,423	1,587,676	25,049	450	588	1,036	113	66,220	47,569	136,951	47,624	953	1,769	5,345,372	_
1840	427.441	5,290,014	1,710,000	25,857	450	294	1,123	130	72,734	49,317	144,900	48,625	88	1,863	5,607,428	
1841	465,357	5,310,103	1,740,664	27,960	443	334	1,211	145	76,747	50,271	163,663	59,955	99	1,936	6,269,398	
1849	486.055	5.348.357	1.916.319	31,638	455	320	1,299	162	83,755	65,137	173,394	76,648	382	2,188	6,913,341	
1848	No census	6.783.197	1,993,659	33,190	451	375	1,330	154	88,062	58,531	184,186	84,326	1,169	2,648	7,155,324	
1844		5.845.935	2,166,101	35,631	465	369	1,431	155	94,168	62,306	187,298	79,050	1,246	3,042	7,556,514	
1845		6.072.078	2,311,238	37,214	478	417	1,636	174	98,598	65,127	199,537	78,665	1,272	3,810	7,778,917	
1046		6 189 419	2.484.704	39.625	492	426	1,868	180	105,517	68,963	211,565	74,370	1,401	4,510	8,236,677	
1847	2	6.477.338	2,673,820	42.937	627	475	1,945	179	113,812	72,017	218,653	76,935	1,489	4,685	8,567,001	
1848	723,292	5,858,072	2,570,938	1	966	1	1,773	1	102,697	60,887	203,927	69,869	ŧ	1	ļ	1
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Note.—For the year 1838 the Assessment Rolls were very imperfectly taken, owing to the disturbed state of the country.—The returns for 1848 are incomplete.

The Assessment Returns of W. Canada for the year 1848 give the following results:-

	Land is	n Acres.	Water	Power.		Ca	ttle.		Shops	e e
Districts.	Unoulti- vated at 4s. per agre	Cultivated at 20s, per acre.	Grist Mills at £50 to £150 each	Saw Mills at £100 each	Horses 3 yrs old and up- wards at £8	Oxen at £4.	Milch Cows at £3.	Horned Cattle, 2 to	Merchants' Shops and Store-houses at £200 each	Valuation of Property assess
Eastern	408,469	102,462	35	56	8,608	620	15,051	3,497	124	£436,55)
Johnstown	390,908	145,862	62	71	7,163	2,715	15,260	5,161	80	459,789
Bathurst	382,735	110,288	44	50	4,027	2,695	10,168	3,212	79	329,410
Midland	336,212	155,826	38	71	7,069	2,495	12,870	4,500	58	462,583
Prince Edward	117,477	102,397	41	49	4,612	1,020	7,251	1,980	49	294,451
Home	596,273	376,969	223	287	16,252	6,586	28,556	8,879	245	1,105,396
Simcoe	280,513	75,227	22	40	2,650	2,820	6,340	2,688	52	93,477
Niagara	248,381	174,086	92	83	8,989	2,318	14,326	3,678	224	519,536
Wellington .	498,911	166,574	68	84	4,535	7,114	12,629	6,442	109	477,613
London	507,598	177,758	61	102	7,124	6,080	16,186	7,719	104	582,891
Huron	345,861	64,599	18	33	1,402	4,188	5,940	3,156	48	215,969
Ottawa	112,798	28,343	20	27	1,834	319	3,484	744	28	111,418
Colborne	252,683	79,563	29	26	2,536	3,324	6,383	2,014	63	332,246
Newcastle	357,584	206,164	85	129	6,881	4,867	13,255	3,830	102	547,241
Gore	363,129	298,079	107	172	10,719	6,371	18,949	6,291	256	no return
Talbot	198,341	90,033	30	87	3,876	2,302	6,889	2,463	52	288,646
Western	460,199	115,708	21	28	6,420	5,053	12,388	5,615	100	227,556
Total	5,858,072	2,570,938	996	1,385	102,697	60,887	203,927	69,869	1,773	6,484,772

Note.—The property valued and assessed, includes houses of wood valued at £20 to £40 each, and brick houses valued at £40 to £70 each, according to the additional fire-places in each. It also includes merchants shops and storehouses valued at £200 each, and pleasure carriages or waggons, dogs, and distilleries, &c. The rating is at the rate of one penny in the pound for common district purposes, one penny in the pound for common schools; one-eighth of a penny in the pound for lunatic asylum. In some districts there are special assessments for the support of the poor—for the administration of justice—for a town-hall—a bridge—a public building—or other local purposes The returns from each district are not alike in form; I have, therefore, only given in the above tabular statement such figures as illustrate generally the wealth and social state of each district in Western Canada

The advantages of this fine country for settlers, may be estimated by the wealth which the above table exhibits. Take for example the following return of mills, foundries, factories, &c., in the Home District, and city of Toronto, showing the estimated value of machinery, &c., connected therewith.

Grist Mills in April, 1844, 75 . value £125,000 Erected since—9 mills, 25 pair stones . 23,000

trict, and city of Toronto, show	ing the
estimated value of machinery, &	c., con-
nected therewith.	
Grist Mills in April, 1844, 75 value	£125,000
Erected since—9 mills, 25 pair stones .	23,000
189 Saw Mills	47,250
12 Oatmeal Mills	3,300
4 Iron Foundries, propelled by steam-city	14,000
5 Small ones, not steam	2,000
10 Woollen Factories, not steam	12,150
	23,700
43 Carding Machines	1.500
1 Edged-tool Factory—city	
3 Starch Factories—1 in city	1,550
23 Distilleries—3 in city	8,825
21 Breweries-5 in city	12,450
1 Pail Factory—city	1,000
4 Soap and Candle Factories—city	3,700
1 Cabinet and Chair Factory, by steam .	1,000
Cabinet and Chair Pactory, by steam	1,200
3 Cabinet and Piano Manufactories-city	
1 Paper Mill-5 miles from city	1,500
31 Tanneries—2 in city	8,050
1 Snuff maufactory—city	250
1 Soda Establishment	380
T DOOR Determient	

A man with health and strength, industry and honesty, may soon become independent in Canada, and realise the boast, that it is decidedly the "poor mag's land."

It has been alleged that Canada has been standing still while the United States was all activity, bustle, and progress; but such is not the case: it has been well observed, that "within the last 25 years, the Rideau, Welland, and St. Lawrence Canals, some of the most magnificent and important undertakings in the world, have been commenced and completed." In the year 1799, the whole of the Home District contained only 224 inhabitants; in 1848, it had a population of 106,995. Twenty years ago, London, Hamilton, Bytown, and Cobourg, scarcely had an existence; now they are flourishing towns, with handsome houses, and spacious public buildings, and their outskirts studded with elegant villas.

The facts contained in this volume amply attest the good government of Canada, and the benefits which the province has derived from British connexion.

£291,805

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s, &c				and Domes-	人··禮	Schools
Lands, Products, &c	Lands — Contents—Acres Cultrated Uncultrated Uncultrated Tillage Pattre Wild Uncultrateable	Price per Acre.— Cleared	Produce — Wheat Barley Barley Bye Oats Peas Peas Buck Wheat Fotatos	rock,	Produce for Market:— Butter, lbs. Cheese, lbs. Beef or Pork, barrels	Public Buildings.— Town Halls Churches Colleges and High So Schools

The average yield of the several crops in the Eastern District, for example, of Western Canada, for the last ten years has been :wheat, about 25 bushels per acre; corn, 40; oats, 40; barley, 30; peas, 35 bushels per acre.

It will be perceived that agricultural produce is the staple of the colony: various manufactories are now however arising; and the engines of many steam vessels on the lakes, have been made in Canada. About 60 large class steamers have been built and fitted out for the navigation of the lakes, and no accident by explosion has occurred. Woollens, linens, and flannels for domestic use, are made in every district; whiskey distilleries, breweries, foundries, tanneries, pot, pearl-ash, soap, and candle manufac-The quantity of tories, are very numerous. maple sugar made in Western Canada, in 1848, was 4,140,667 lbs., or nearly 6 lbs. for each individual. Apples, pears, plums, peaches, cherries, raspberries, currants, strawberries, gooseberries, and damsons, flourish when cultivated. On the shores of Lake Erie peaches have been sold at a quarter of a dollar per bushel, and apples are sold on the banks of the river Thames at three-pence-halfpenny per bushel. culinary vegetables arrive at perfection. Pumpkins and squashes grow in the open fields to an enormous size; 50 to 80 pounds weight is not unusual. The fisheries of the great lakes are now being appreciated; iron and copper ore abound, and are of good quality.

But the main sources of wealth consist of millions of acres of fertile-soil, a genial climate, industrious people, and a market such as England, ready to receive at all times an incalculable quantity of human food, and to furnish in return, abundance of manu-

factures at the cheapest rate.

The number of proprietors of real estates liable to assessment in Western Canada, in 1848, was 60,000 to 65,000; and the number of acres occupied, 8,613,591 = 133acres to each proprietor; allowing 1,780,152 acres of land to be arable, and 766,768 pasture = 2,546,920; and considering that the great body of the people are supported by agriculture, there are more than 3 acres to each mouth.

The number of acres returned under tillage was 1,780,152; and under designated crops, as follows:—wheat, 593,695; barley, 29,324; rve, 38,542; oats, 285,571; peas, 82,516; maize, 51,997; buck-wheat, 26,653; allowed for the consumption of each inhabi-

potatos, 56,796 acres = 1,165,004; add for omissions 10 per cent., 116,500. total under designated crops, 1,281,504 acres; which leaves 498,638 unaccounted for, probably appropriated in gardens, townplots, &c.

The unproductive lands in Western Canada comprise 571,139 acres, or about 6.63 per cent.; but a large portion returned as unfit for cultivation, are swamp lands, which

only require drainage.

In England the unprofitable lands are estimated at 10 per cent, of the whole area. The value of the uncultivated lands, viz.: 5,849,406 acres, at £1 9s. 2d. per acre, is £8,530,383; of the cultivated, viz.: 2,546,920acres, at £3 10s. 10d. per acre = £,920,341; total, £17,550,725. Western Canada, as a British colony, offers a favourable contrast to the United States as regards agricultural produce. The Statistical Reporter for the province makes the following remarks thereon:-" In 1840 the population of the United States was 17,063,353; and in 1847, 20,746,400. In 1842 the population of Western Canada was 486.055; and in 1848. 723,332."

United States.

Crops	Gross quantity in 1840	Gross quantity in 1847	Quar to e inhab	ach
	1840	1847	1840	1847
Wheat—bushels Barley Oats Rye Rye Buckwheat Maize Potatos Peas "	84,823,272 4,161,504 123,071,341 18,645,567 7,291,703 377,531,875 108,295,108 Not given	11,245,500 5,649,950 167,867,000 29,222,700 11,673,508 539,350,000 100,965,000 in either re	4 96 25 7 21 1 09 0 43 22 12 6 35 turns	5 50 28 8 09 1 42 56 26 01 4 86

Canada.

Crops	Gross quantity in 1842	Gross quantity in 1847	Quan to e inhab	ach
	1044	104/	1842	1847
Wheat—bushels Barley Oats Rye Buckwheat Malze Potatos Peas "	3,221,991 1,031,335 4,788 167 292,970 352,786 691,359 8,080,397 1,193,551	7,558,773 515,727 7,055,730 446,293 432,573 1,137,555 4,761,331 1,753,846	6 62 2 12 9 85 0 60 0 72 1 42 16 62 2 45	10 45 0 71 9 75 0 62 0 60 1 57 6 57 2 42

From the above table it will be seen that in proportion to the extent and population, Canada is a more agricultural and fertile country than the United States; the surplus of wheat is very great. The usual quantity

PRICES OF LAND WILD AND CLEARED IN WESTERN CANADA. 136

country. The large quantity of Indian corn about 24 bushels to each inhabitant. grown in the States, enables them, by makcontrary, little Indian corn is grown, and severe. wheat becomes of necessity the great article of food.

If we take the produce for 1847 at the lowest average prices, we have as the value of the products of Canada:-

Products.	Bushels.		rage ces	Valu	e.	
		8.	d	£	8	d
Wheat	7,558,773	3	6	1,322,785	5	6
Barley	515,727	2	3	58,019	5	9
Oats	7,055,730	1	3	440,983	2	6
Rye	446,293	2	3	50,208	1	9
Maize	1,137,555	2	6	142,194	7	6
Buckwheat .	432,573	4	0	86,514	12	0
Peas	1,753,846	2	6	219,230	15	0
Potatos	4,751,331	1	6	356,329	16	6

"In making the foregoing comparison between the crops of the United States and Canada, a remark has been made which requires some observation. It is stated to be unjust to take the whole of the former country, whereas some portions do not produce wheat, Louisiana and Florida for instance, whose united population is about 600,000; we will take therefore those states which produce the greatest quantity, viz:-

United States.	Population.	Wheat.	Average to each inhabitant.
New York.	2,880,000	Bushels	Bushels.
		15,500,000	about 5
Pennsylvania.	2,220,000	15,200,000	" 7
Virginia	1,295,000	12,250,000	, 10
Ohio	1,980,000	20,000,000	. 10
Indiana	1,000,000	8,500,000	**

"With respect to Michigan, it is worth while to examine the returns; in 1840 the population of that State, was 212,267, and its produce in wheat was 2,157,108 bushels. In 1848 the population is rated at 420,000, and the wheat crop at 10,000,000 bushels, and other crops at 22,110,000, making together with regard to the available labour of the State? According to the ratio of 1841, the whole male population between the ages of 15 and 70 would be about 127,000, of whom allowing 75 per cent. to be engaged in agri

tant is generally 5 bushels, which would enormous harvest of grain, above 850 leave for export one-half the produce of the bushels to each man. The wheat crop being

Cattle increase with great rapidity in ing it a staple of consumption, to export Canada, especially in the western part of a large stock of flour. In Canada, on the he province, where the winters are not

Cattle in Western Canada.

Description.	1842.	1848.	Increase.	Per Cent
Neat Cattle	504.963	565,845	60,882	12
Horses .		151,389	87.714	33
Hogs	394,366	484,241	89.875	23
Sheep , .	575,730	833,807	258,077	45

Western Canada will become a great sheep country. In 1842 the wool produced was 1,302,510 lbs.; in 1848, 2,339,756 lbs. In the United States the number of sheep m 1840 was 19,311,374 and the wool produced 35,802,114 lbs.

The quantity of lands surveyed and granted in Eastern and Western Canada, will be seen in the following tables; the subject of emigration, in connexion with the waste and unoccupied lands, will be given at the conclusion of the description of the whole of British America, to which the data furnished by official authorities apply generally.

The remarks made in 1846 by the instructive editor of the Canadian Gazetteer (Mr. W. H. Smith) respecting the price of land in Western Canada, deserve the notice of emigrants. "All lands in the possession of the crown, with very few exceptions, are sold at 8s. currency per acre, which may be paid for either in cash or scrip. This scrip is usually to be purchased at a discount of 20, 25, and sometimes 80 per cent. If the immigrant gets it at a reduction of 25 per cent., his land will only cost him 6s. currency per acre, which is three pence per acre less than the government price of land in the United States. There are about 2,300,000 acres of the crown lands in Western Canada surveyed and ready to be disposed of at this price, exclusive of the clergy reserves." Land may be purchased of private individuals in the different districts of Western Canada at 32,000,000 bushels. How does that stand the following rates:-In Victoria district, near the frontier, 4 to 10 dollars per acre for wild (uncultivated) land, and for cultivated farms, including buildings, 20 to 35 dollars per acre. In the back townships, wild land 1 to 4; cultivated, 8 to 20 dollars culture we have 92,000 to collect this per acre. Other districts similar.

LANDS GRANTED AND SOLD IN EASTERN CANADA,

Page		LAI	מעוי	GLA	INTEL	, A	INT
Packer Power 1836 to 1847 modes 1837 1838 1840 1841 1842 1843 1844 1845 1846 1841 1842 1843 1844 1845 1844 1844 1844 1844 1844 1844 1844 1844 1844 1844 1844 1844 1844 1844 1844 1845 1844 1844 1844 1844 1844 1844 1844 1844 1845 1844 18		1847.	182 13,770	15,359 13,197 280	42,317 36,948 5,369 4,206,816	2,799,040	
Grants under 100 acres Grants to 600 acres Total number of gra Total number of ser Of whoth were And which wee	er.	1846	11,148	15,445 140,882 260	167,485 36,885 130,900 4,164,499	2,802,5574	
Grants under 100 acres Grants to 600 acres Total number of gra Total number of ser Of whoth were And which wee	оттивноп	1846	138	16,767 123,688 262	151,573 100,942 50,595 3,997,014	2,927,763	
Grants under 100 acres Grants to 600 acres Total number of gra Total number of ser Of whoth were And which wee	m Land C	1844			85	3,604,300	
Grants under 100 acres Grants to 600 acres Total number of gra Total number of ser Of whoth were And which wee	the Crou	1843	1		60	3,864,520	t known.
Grants under 100 acres Grants to 600 acres Total number of gra Total number of ser Of whoth were And which wee	Book," by	1842	62 4,539	10,182 33,087 113	47,808 44,703 3,106 3,772,378	3,896,093	extent no
Grants under 100 acres Grants to 600 acres Total number of gra Total number of ser Of whoth were And which wee	the "Blue	1841	69	11,602 26,537	43,351 34,928 8,423 8,423	3,943,901	Bay Chaleur
Grants under 100 acres Grants to 600 acres Total number of gra Total number of ser Of whoth were And which wee	nushed to	1840	16,012	10 866 26,973	52,850 19,581 33,269 3,724,570	3,809,241	and one m
Grants under 100 acres Grants to 600 acres Total number of gra Total number of ser Of whoth were And which wee	deturns fu	1839	389	20,690 75,482	131,693 94,442 37,251 3,681,219	3,862,091	urray Bay.
Grants under 100 acres Grants to 600 acres Total number of gra Total number of ser Of whoth were And which wee	en from I	1838	104	8,681 19,444	37,358 30,947 6,411	3,993,785	rants in M
Grants under 100 acres Grants to 600 acres Total number of gra Total number of ser Of whoth were And which wee	lusrve, tak	1837	36,566	20,074 37,548	25,959 25,959 68,149	4,031,143	no also two
Grants under 100 acres Grants to 600 acres Total number of gra Total number of ser Of whoth were And which wee	o 1847 mc	1836	1,898	31,932 60,654	94,484 55,275 39,209	4,074,862	Those wo
Grants und Grants to b In grants o Total numl Total numl Of whu And w	In the Years from 1836 to	IPTION OF GRANT		•	rants cres granted by purchase ere by free grants	ranted in coloury Ingranted	
		DESCRI		Grants to 500 acres In grants over 500	Total number of gr Total number of ac Of which were And which we	Number of acres g	

Include 124,834 acres granted to the British American Land Company

· This Line fluctuates by new surveys

Since the 1st January 1841, there were granted in Eastern Canada .--. 527,844\\ Acres . 408,206\\ " 4 Also 676 Town, and 76 Park Lots By purchase By free grant

Last to the ti Dless Deal " Les Al. LANDS GRANTED AND SOLD IN WESTERN CANADA,

936,051

In the Years from 1836 to 1847 inclusive, taken from the Returns furnished to the "Blue Book," by the Crown Land Commissioner	36 %	1847 mclu	sne, taken	from the	Returns	fur nished	to the	Hue Book	, by the C	nown Lan	d Commis	ssoner.		_
DESCRIPTION OF GRANT		1836	1837	1838	1839.	1840	1841	1842	1843	1844	1845	1846	1847	
	Acres	1,662 134,603 1,951 382,858 47,981 3,672 565,442 29,102 29,102 1,069,262 1,576,326	1,211 103,483 699 147,006 28,602 1,943 279,091 28,083 267,008 1,774,449 1,463,831	606 62,119 383 84,625 24,645 1,016 161,289 20,608 140,781 1,401 946 1,486,236	941 74,774 436 87,624 14,219 1,391 176,518 60,312 1,592,631 1,475,835	1,182 92,443 626 103,440 10.347 1,723 206,430 61,346 1,623,964 1,623,964	362 31,067 224 31,436 20,412 82,906 82,906 66,295 1,628,948 1,628,948	419 29,001 181 36,552 10,124 612 75,677 23,651 52,066	856 38,473 465 34,109 12,390 12,390 1,034 84,952 40,952 44,000	866 34,856 147 29,878 9,116 1,026 73,850 38,436 35,414	173 9,269 872 118,876 30,264 1,063 126,400 126,400 32,009 2,907,763	1,070 69,433 212 42,400 76,035 1,303 128,668 83,535 46,033	1,490 110,067 194 39,544 12,360 17,111 162,371 64,743 97,628	
	~	•	-	•	•	•		•	•	•			•	

The quantity of land originally surveyed in Western Canada, including that surrendered by the Indian tribes, was about 18,153,219 acres, which have been appropriated as follows:-To the United Emigrant Loyalists, and for various claims, 10,404,663 acres. Of this amount the United Emigrant Loyalists who quitted the United States during the war against England received about 3,206,987 acres; the Canadian Militia about 730,709 acres; Discharged Soldiers and Seamen, 449,400 acres; Magistrates and Barristers, 255,500 acres; Legislative Councillors and their families, 142,960 acres. The Clergy Reserves, consisting of oneseventh of the surveyed cultivable lands, set apart by George III. for the support of the Christian religion, amounted to 2,407,687

There has been allotted for educaacres. tional purposes to King's College, Toronto, 225,944 acres; to Upper Canada College. 63,642 acres; to Grammar Schools, 258,330 The Canada Company have purchased 2,484,413 acres. The Indian Reservations not disposed of amount to 808.540 acres; the lands remaining on hand, 1,500,000 acres; and the unsurveyed lands are about 13,500,000 acres; of which it is estimated 9,000,000 acres are fit for cultivation. About half the surveyed lands of Western Canada have been purchased from the Indians since 1818, and Mr. W. H. Smith, in his valuable Canadian Gazetteer, gives the following statement of the quantity of land bought, and the price paid by the British Government:-

Date of Sur- render	Name of Tribe	No. of Tribe	No of acres sold.	Amount of Annuity in Currency.	
20th July, 1820 31st May, 1819 28th Oct , 1818 5th Nov , 1818 17th Oct., 1818 26th April, 1825 9th May, 1820 25th Oct., 1826 9th Aug , 1836	Mohawks of Quinte Bay Mississagas of Alnwick Ditto of Credit River Datto of Rice and Mudl Lakes Chippewas of Lake Huron (Ditto of Chenail, Ecarte, and St Clair) Ditte of River Thames . Moravians of ditto Saugeen Indians	415 218 245 345 540 1,129 438 184 348	33,280 2,748,000 648,000 1,951,000 1,592,000 2,200,000 580,000 25,000 150,000	£450 0 642 10 522 10 740 0 1,200 0 1,100 0 600 0 150 0 1,250 0	£2 10s. to each member of the tribe, but not to exceed £450 Ditto, but not to exceed £642 10s. [If the tribe decreases one-half, the annuity is to decrease in the same proportion, the original number specified in the deed is 440 souls £2 10s to each member of the tribe, but not to exceed £600 yearly. £2 10s to each member of the tribe, not to increase, but to decrease with its dimmution.
	Totals,	3,862	9,927,280	6,655 0	

tion or annexation to the United States. the people of England would require indemnification for their property.

£15,000 a-year is still annually voted by the British Parliament for the payment of the several sums due to the Indians, who are located in different parts of the province, and in some instances converted to Christianity; their numbers are, however, fast diminishing, and at no distant time they will probably be extinct. About 1,140 Chippewas reside on Walpole Island in Lake St. Clair. Members of the Chippewas, Munsees, Oneidas, Pottawatamies, and Moravian Delawares, are located on the banks of the river Thames, in the townships of Orford, Delaware, and Caradoc. Another Chippewa tribe are established at Sarnia, at the head of Lake St. Clair; Sir

These purchases give the government and tribe, and they have made some improvepeople of England the right of those lands ments in agriculture. The Saugeens are in Canada, and in the event of separa- resident in two villages situated at the mouth of the Saugeen and at Owen Sound. The principal Indian settlement is at Manatouln Island, where the British officers and clergymen who are appointed superintendents by her majesty's government The Indians here are becoming reside. more settled, and are being baptized.

Of the "Clergy Reserves" in Western Canada there were sold, from 1829 to 1838, 400,742 acres; and during the same period, of the Crown Lands in Western Canada only 100,317 acres were sold. In Eastern Canada there has been no sale of Clergy Reserves since 1838. Either the lands thus appropriated for the support of the different ministers of the Christian religion have been mismanaged, or the price asked for those lands have been too high.

The "Canada Company," which was J. Colborne endeavoured to civilize this incorporated by royal charter, 19th August

1826, with a capital of £1,000,000, has settler enabled to add to his means of tilling purchased of reserved and other lands in the soil. Western Canada 2,484,413 acres: of these, 1,300,000 acres are held in dispersed blocks. in sizes of 200 to 2,000, 10,000, 12,000, and 14,000 acres, and the remainder is comprised in the Huron tract, which was granted in lieu of one moiety of the clergy 1,316,401 meces; spruce deals, 916,933 reserves scattered throughout the province. This company has effected great good, its feet; ash, 250,432 feet; birch, 241,683 feet; settlements are among the most flourishing in the province, and the people therein Eastern pine, oak, elm, ash, and birch, are strongly attached to the British crown. been faithfully fulfilled; they stipulated to America will be described. pay for their lands as follows :- On 1st July, 1827, £20,000; three following years, each, £15,000; in 1831, £16,000; in 1832, £17,000; in 1833, £18,000; in 1834, £19,000; in 1835, £20,000; and thereafter the sum of £20,000 annually, until 16 years shall have expired from 1st July, 1826, at which time their payments reached £295,000 From this sum the Company was authorised to deduct £45,000 for the construction of works of public utility within the Huron tract; and to this fund the Company have made large additions. Its affairs are managed by a board of directors, resident in London, and affords an illustration of the beneficial working of corporate bodies in the distant possessions of the crown.

STAPLE PRODUCTS .- Timber now forms the largest item in the exportable products of Canada; the quantity in, and adjacent to the colony is so great that it must, in all human probability, continue to yield wealth to the province for many years. In the "lumber" trade, as it is termed, a large amount of capital is employed; about one million and a half sterling is invested in the neighbourhood of Quebec in erecting saw mills, making log ponds, building craft for the transmission of deals, and forming a secure riding for vessels in the strong tideway of the St. Lawrence, while the timber is being shipped. In different ways this business offers immediate employment to the poorest class of immigrants, and furnishes them with the means of support through the severity of a long winter, while it enables new settlers more readily to establish themselves. Until the land be cleared, its cultivation is, of course, impossible; the "lumberer" is therefore the assistance, converted into money, and the two years, which was less than £5,000."

The quantity of timber annually supplied by the Canadian forests is enormous; for instance, in 1846 there arrived at Quebec, from the interior-of white pine, 24,705,287 feet; red pine, 5,270,600; pine deals, pieces; oak, 2,756,754 feet; elm, 3,472,303 Tamarac, 598,584 feet. The Western and all square timber. In the section on New All the obligations of the company have Brunswick the forest trees of British North

The forests on the Ottawa contribute an annually increasing supply. During the three years ending 1840 there passed down the Ottawa-of white pine, 49,783 feet; red pine, 253,163; oak and elm, 7,834; deals, 46,250; and saw logs, 48,272 pieces, The country around the Saguenay also contributes an immense quantity.

In order to facilitate the transit of timber on the Ottawa, and avert the danger attendant on passing the rapids, government have constructed "slides" over several of the principal falls, those over the Chaudière have been recently visited by Mr. Barker, who says-

"They are four in number, three about 100 feet long each, and one 200 feet long; all 26 feet wide (which is the general width of all crib slides), over-covering a fall averaging generally 35 feet. In the first, or upper slide, an ingenious arrangement to regulate the pitch of water on the slides has been introduced, consisting of two large gates (as strong as oak and iron can make them) similar to lock gates, only laid flat, the upper one overlapping the under one, and forming a part of the slide. Now, the water being let in under these gates by the level above, lifts them up by hydraulic pressure; and by means of another wicket to let the water out below, the level is regulated to any required pitch, or shut off altogether by simply turning a wrench, thus showing how easily a tremendous power can be controlled—a volume of water equal to 150 feet area can be let down the slides, or shut off instantly. These slides have been in use three years, and cost upwards of £5,000 The Chute slide is the best on the river; t is 350 feet long, which, with the head gates, over-cover a fall of nearly 40 feet. This slide is built in the form of a reversed curve instead of an inclined plane; the advantages of this shape are, that the tumber is prevented running out of the cribs when the timber is of unequal size. To illustrate this more fully—when cribs are passing down a slide, the largest pieces drag upon the bottom or floor of the slide, and the water floats out the smaller pieces, leaving the crib a wreck, which has generally to be pulled to pieces, and caught below and rafted over possible; the "lumberer" is therefore the pioneer of the agriculturist, and the trees which were an incumbrance, are, by his at 5s each, thus more than paying the first cost in

The "lumber" trade on the Ottawa and its branches, it is estimated, gives employment to about 10,000 men, who are fast settling that section of the country. The Trent, and its tributaries, with the Bay of Quinte, employ also about 10,000 men. No very accurate estimate can be made as to the numbers employed westward. In the population returns the "lumberers" are not

usually given; but the able compiler of the Canadian "Blue Books," thinks that the number engaged in this branch of industry 18 from 25,000 to 30,000, with a large number of cattle.

The different sections of the province where the "lumber" trade is carried on is thus shown in the official returns for 1846:--

	Whi	te Pine.	Red	Pine.	C	ak.	E	lm.
	Pieces.	Feet.	Pieces.	Feet.	Pieces	Feet.	Pieces	Feet.
Quebec and Montreal St. Lawrence from Mon- treal to head of Lake	22,624	1,163,081	4,264	68,592	65	1,904	691	24,449
Ontario	108,541	7,567,662	8,391	249,579	10.061	320,130	54.688	2,009,848
3. Grand River and Lake Erie 4. Ottawa and tributaries be-	4,508	279,763	5		32,212	1,995,358		77,494
low Bytown	92,827	4.988.337	3,964	120,794	4.163	77 754	21.952	750,823
5. Gatineau	23,284	1,477,357	3,959	133,155			1,489	42,442
6. Rideau	26,527	1,653,851	1,778	67,460		21,895		264,728
7. Ottawa and tributaries be-								
low Bytown	125,780	7,532,764	118,131	4,543,549		126,272	4,487	133,801
8. United States	599	35,453	1,213	53,936	562	15,078	3,940	168,718
Total in 1846	404,690	24,698,268						3,472,303
Do. in 1845	404,246	19,141,982	115,432	4,444,515	38,841	1,834,485	42,847	1,567,108

Fisheries.—None organized. Many hundred barrels of white fish are annually taken, and salmon, trout, shad, pike, pickerel, herring, black and white bass, maskmonge, sturgeon, mullet, chub, and perch, are caught in great numbers. The value cannot be ascertained.

The exports of fish from Quebec, and the coasts of Gaspé, New Carlisle, and the Magdalen Islands, was for 1846, - cod, 91,124 cwt, and 274 barrels (value £56,614); haddocks, 396 tubs and 60 cwt; pickled fish, 926 barrels and 44 half barrels; salmon, 77 barrels and 154 half barrels; cod-sounds. 2 barrels and 75 kegs; fish-oil, 35,781 gallons (value £3,452); blubber, 482 gallons; seal-skins, 9,000. The value of all the above was £62,104.

Shipping.—Built and registered at Quebec. 45 ships and brigs, tounage 33,725; and 9 schooners, tonnage 610, and at Montreal 9 vessels, tonnage 1,032. From 30 to 45 steamers, ranging from 80 to 500 tons, have been registered at the above ports. The greater number are employed as passage boats, or for towing. There are many small steamers, from 30 to 90 tons, not ston and the intervening ports; they descend by the St. Lawrence, and return by the Rideau canal.

The registered tonnage on the Lake trade, exclusive of steam-boats and iron boats, barges, &c , engaged in the forwarding trade between Kingston and Montreal, is estimated for the year 1846 at 17 or 18,000 tons. A great portion of the trade on the lower lakes (the import trade altogether), and nearly the whole on the upper lakes, is carried on in American bottoms steamers, propellers, and other vessels owned on Lake Ontario, and employed on the inland waters of Canada, were, in 1846, 57 steamers (2 of iron), value £350,000, 6 large propellers, value £14,000; 2 ships, 5 brigantines, and 94 schooners of 30 tons, and upwards, value £150,000; barges 300, value £80,000; 7 river-propellers, value £7,000; small craft under 30 tons, value £17,000.

Ashes-(pot and pearl)-are prepared in large quantities by the settlers when clearing their lands, to assist them meanwhile in purchasing provisions. The exports average annually 22,000 barrels of pot, and 12,000 barrels of pearl ashes. The ashes are the residue after the burning of timber or plants growing at a distance from the sea shore. The Canadian ashes contain a greater proregistered, running from Montreal to King- | portion of real potash, than those of Dantzic or of Russia.

> Grain is rapidly becoming a valuable staple product. In 1838 there was no wheat

exported from Canada by sea; in 1847, in a fair season, 300 lbs. of sugar, 25 gallons 628,001 bushels; flour in 1838, 59,204, of molasses, and a barrel of vinegar. There in 1847, 650,030 barrels; oats in 1838, none, in 1847, 163,805 barrels; oatmeal, 21,999 in Canada, especially about Lake Huron. barrels: barley, increased from 146 to 23.612 bushels; peas, from 1,415 to 119,252 bushels; beef, from 430 to 2,000 barrels; butter, from 80,000 to 1,000,000 lbs. between 1838 and 1847. The annals of few countries record such an increase in the production of food, beyond the supply required for a rapidly increasing population. Every bushel of grain, every pound of meat that Canada can raise and rear, finds an immediate and profitable market in England, and this stimulus is causing a yearly extension of 15,000, and several manufactories have been agriculture.

Many districts in Western Canada are well adapted for the growth of maize or Indian The production of this article of food in the United States was in 1840, 377,531,875 bushels; in 1841, 387,380,185 bushels: in 1842, 494,618,306 bushels. It is the great staple of the agricultural produce of the States; each family of 5 persons, consumes on an average 85 bushels per annum: it is used for distillation, sugar is manufactured from the stalk, and it is kiln-dried, ground into meal, and largely A farmer at Ida, in the United exported. States, declares, that on 5 acres of land which had been cleared for 20 years, grown wheat for 18 years, and never manured, he obtained from 2 bushels of corn 972 bushels of ears, each bushel of ears weighing 37 lbs.; expense, 44 dollars; receipts, 223 dollars; net, 179 dollars.

The farmers of Western Canada are now turning their attention to the growth of maize, which, it is considered, would tend greatly to increase their supply of good pork for the markets of Europe.

Horned cattle, sheep, and swine, multiply with extraordinary rapidity, and animal food will, doubtless, ultimately form a large item in the exportable products of Canada.

Maple Sugar is made in large quantities. Eastern Canada in 1844 produced 2,272,457 lbs.; and Western Canada in 1847, 3,764,243 lbs.; total, 6,463,845 lbs. The raw material is obtained from the maple tree (acer saccharinum), which is tapped in spring with a gauge, by passing it obliquely upwards an inch or more in the wood; the sap flows with considerable rapidity, is boiled down, and clarified, and the sugar mounts to 5 per cent. of the whole sap. ronto, on Lake Ontario, was, in 1841,

are extensive forests of the sugar maple tree and many Indians are now engaged in the manufacture. The maple is a beautiful tree: the wood vies with black walnut and mahogany for durability and beauty; the ashes abound in alkalı. The trees which come up after the first clearing, produce a more saccharine sap than the original forest maples. In the United States a very large quantity of maple sugar is prepared.

Manufactures.—There are many domestic looms, particularly in Eastern Canada (about projected, and some established for spinning cotton. A factory on the Richelieu river. nearly opposite St. John's, produces cotton wadding 12 vards long, by 1 wide-even in its texture, double glazed, and free from lint. A mill is being constructed at Sherbrooke to drive 1,000 spindles, capable of turning out yearly 300,000 yards of cotton cloth.

The quantity of iron smelted in Eastern and Western Canada is considerable, and of excellent quality. Copper is also becoming a valuable article in the provincial products.

Shipbuilding is a profitable branch of In 5 years ending 1832, the shipping built averaged annually about 5.000 tons; in one month of 1845 (February), there were building in the several dockvards at Quebec 28 vessels, whose tonnage was 19,110; and the number of artizans employed in their construction was 2,400. About 60 large class steamers have been built for the navigation of the lakes and rivers, the machinery of which was entirely The schooners constructed in Canada. plying on the lakes range from 20 to 200 tons-all built in Western Canada. The steamers range from 50 to 700 tons.

INTERNAL TRADE,-Inland commerce is very active, especially on the great lakes and adjacent canals. Its increase may be conjectured from the traffic on the Welland canal, which connects Lakes Erie and Ontario, and extends about 38 miles. In 1829 it was rendered partially available; in 1837 the tolls collected amounted to £5,516; and in 1847, to £30,549. The Cornwall Canal recently constructed, yielded in 1845 tolls amounting to £51, and in 1847, £3,336.

The revenue collected at the port of To-150 trees of 10 to 15 years old, will yield, £5,050; in 1847, £32,678. At Kingston, on Lake Ontario, the customs yielded in £10 a head, and their property had in-1842, £6,826; in 1847, £17,584. The gross customs collected at different inland ports in Western Canada, was in 1842, £10,723; in 1847, £40,009. At the inland ports in Eastern Canada, the increase was from £2.278 to £9,765.

The exports by land from Canada to the United States, amounted in 1832, to 3,641,385 dollars, and in 1841, to 6,656,564 The total exports from Canada to the United States by land for the ten years, ending 1841, were in value, 40,645,643; and the total imports into Canada from the United States for the same period, 18,480,234 dollars; showing a balance in favour of Canada of exports over imports, 22,165,643 dollars

The "slides" on the Ottawa yielded tolls for timber passing in 1845, £946; in 1846, The "slides" on the Trent in 1845, £6; in 1847, £1,162. The gross revenue from roads was in 1842, £3,821; and in 1847, £21,763 The revenue from inland harbours increased in the same period from £1,664 to £4,643, on canals generally, from £18,535 to £50,131; on bridges, from £210 to £1,094. The amount of rateable property in Upper or Western Canada in 1825, was £997.025; in 1841. £5,996,609; in 1848, about £9,000,000. All this indicates remarkable progress, especially as 1847-48 was a year of depressed trade in Canada.

Twenty-five years ago there were only two newspapers published in Western Canada, now there are an hundred in the province: then there were but eight post-offices, seattered at great distances along the frontier, and the mail was conveyed by land from Lower (Eastern) to Upper (Western) Canada, once a fortnight by land, and from Toronto, westward, once a month; now there are 280 post-offices in Western Canada, and the frequency of postal communication increases with the rapid transmission of letters. In 1834 the number of post-offices in the Canadas was 234, in 1844 the number was greatly increased. There are about 5,000 miles of post roads.

The onward progress of Canada may be illustrated by the following statement respecting the county of Huron in Western Canada. In 1828 it was an un tenanted waste; in 13 years it had 6,000 settlers; of these 514 families went on their land destitute of means, and in 1841 their stock and improvements were valued at £90,486;—61 families had means under

reased to £10,424; 254 families had means under £50 per head, and their means augmented to £40,526; and the value of property possessed by individuals who commenced with a capital exceeding £50 per head, rose to £100,850. Thus the value of stock and improvements in the county of Huron became in 13 years, £242,286. These are not singular instances; similar heering results of energy and industry, re to be met with in many districts of Canada.

The increase of houses in Western Canada between 1827 and 1847, was at the ate of about 10 per cent, per annum; in England from 1812 to 1831, it was not 3 per cent. Grist mills in Western Canada increased from-

1830 to 1835 79 1840 to 1845 1835 to 1840 68 1845 to 1847 49 The increase during the last period was, consequently, 5.13 per cent. per annum. The increase of horses from 1825 to 1847, was 9 per cent.; of oxen, 6 per cent.; of milch cows, 8 per cent.; of young cattle from 1840 to 1845, 12 per cent.; between the years 1842 and 1847, neat cattle inreased 12 per cent.; horses, 33 per cent.; hogs, 23 per cent.; and sheep, 45 per cent. per annum.

The honourable Mr. F. Hincks, the reeiver-general of Canada, has favoured me with the following data, which bear evidence of the improvement of the province:-

Population of E Canada.	Eastern		on of Western anada.
1825	423,630	1824	151,097
1827	471,876	1832	261,060
1831	511,920	1834	320,693
1844	690,782	1836	372,502
1848 estimate	776,000	1842	486,055
		1848	723,292

80 per cent. of the whole population derive their subsistence directly from agriculture

Acres of C	ultivated Land	Hor	uses of a	ll kinds.
in West	ern Canada.	1825		8,876
1825	535,212	1830		12.082
1830	775,014	1835		18,488
1835	1,208,508	1840		25,857
1840	1,710,000	1845		37,214
1845	2,311,238	1848		42,937
1848	2,673,820			
Gri	st Mills.		Saw M	fills.
1825	71	1825		394
1830	273	1830		555
1835	352	1835		758
1840	420	1840		963
1845	478	1845		1,272
1847	492	1847		1.489
1848	527			-,100

Carriages kept for pleasure	Merchants' Shops.	Sheep 1842 . Head. 575,730
1825	1825	1848
Value of Assessed Property	Local direct Taxes.	Butter 3,380,406
	1825 £10,235 1830 13,335 1835 22,464 1840 37,465 1845 76,291 1848 86,058 **Western** Canada.	Cheese 668,357 Owing to causes which I need not explain, the last census was not taken for Eastern Canada. The statistics given, therefore, are for Western Canada alone. MARITIME COMMERCE.—Quebec and Montreal are the seaports of Canada. In 1800
Town Halls . Churches	68	the arrivals at Quebec consisted of 64 vessels, with a burthen of 14,293 tons; in
Colleges and Hig	h Schools 39	1842, 864 vessels, of 307,687 tons; and an
Common Schools		1845, 1,475 vessels, of 559,712 tons.
	duce. 842 3,221,991	In the appendix to the minutes of evidence before the select committee of the
(1	848 7,558,773	House of Lords in 1848, the declared value
	842 4,788,167 848 7,055,730	of British and Irish produce exported from
" Kye . {1	842	the United Kingdom to Canada, is stated for 1845 at £2,212,339, and the official
" Peas . {1	842 1,193,551 848 1,753,846	value of the same at £4,511,699. The
" Maize. [1	842 691,359 848 1,137,555 842 1,031,355	shipping which entered the ports of the United Kingdom from Canada during the
Barley {1	848 515,727	same year was, 1,580 vessels, of 629,824 tons.
" Potatoes {1	842 8,080,397 848 4,751,331	The value of the import and export trade
	842 lbs. 1,302,510 848 2,339,756	has increased in nearly the same ratio as the shipping. The subjoined tables show
Neat Cattle {1	842 Head. 504,963 848 565,845	the amount of the sea commerce for the 8 years following the re-union of Eastern
	842 113,657 848 151,389	and Western Canada in 1840:—

Value of Imports at the Ports of Quebec and Montreal since the re-union of the Provinces.

QUEBEC	£ 74,457 75,701 234,449 396,196 486,047	West Indies. £ 775 1,016 1,039	North America. £ 57,922 28,745	Elsewhere.	United States. £ 282,610	Foreign States. £ 17.343	£ 179,109
1841	74,457 75,701 234,449 396,196	775 1,016 1,039	57,922 28,745	74,457 775 57,922 —			
1842	75,701 234,449 396,196	1,016 1,039	28,745	-		17.343	179 109
1843	234,449 396,196	1,039					
1844	396,196		40 000	- 1	16,275	56,363	178,084
1844	396,196		42,390	72	27,997	24,647	330,597
1845		994	48,310	123	59,646	33,798	5 39,070
1847	400,041	5,321	26,982	64	52,970	16,145	585,533
1847	496,099		38,361	1,481	52,448	28,854	617,245
	473,417	624	42,078	813	109,082	28,985	655,000
	381,625	1.585	54,056	3,020	50,803	23,302	514,393
1849	,	,	1	'			
MONTREAL:							
1841 1	1,632,480		38,615	_	10,763	17,078	1,699,837
	1,614,981	1,072	32,686		558	12,570	1,661,868
1843	911,828	1,255	54,576	- 1	58,509	33,751	1,059,921
	1,803,226	367	55,378	_	143,219	30,922	2,034,315
	1,990,864	8,329	33,876	- 1	190,114	20,446	2,153,631
	1,734,760	31	37,111	-	90,513	31,205	1,893,623
	1,491,877	270	49,487		126,557	27,785	1,695,978
	1.062,948		29,522	-	107,873	17,138	1,217,604
1849		_	-	' - 1	_	_	—

Value of Exports from Quebec and Montreal.

		Great	В	rıtısh Coloni	es.	United	Other	
Year	5.	Britain.	West Indies	North America.	Elsewhere.	States.	Foreign States.	Total.
QUEBEC: 1841 1842 1843 1844 1845 1846 1847 1848 1849 MONTREAL: 1841 1842 1843 1844 1845 1846 1847		£ 1,102,542 592,107 1,068,288 1,178,326 1,649,702 1,478,573 1,413,599 1,034,121 526,064 566,681 285,876 597,276 597,276 616,683 283,104	£ 31,337 24,187 11,133 3,381 1,450 989 — 11,782 5,137 5,720 3,444 — —	£ 78,946 56,578 33,706 34,899 33,728 54,394 88,551 79,456 35,543 28,137 27,470 16,766 21,339 18,784 32,878 27,474	£ 191,952 127,593 — 1,025 — 1,859 — 2,028 — — — —	£ 417 — 467 750 — 921 1,618 — — 5,293 22,587 11,124	£ 14,853 14,446 10,968 3,968 4,871 116 329 416 450 400 358	£ 1,420,049 814,922 1,124,097 1,222,067 1,690 562 1,534,074 1,505,259 1,115,619 575,400 598,955 319,067 617,916 592,436 541,100 697,794 322,061
1849	•							

The variety of articles exported from the United Kingdom to the British North American Colonies is shown in a return laid before parliament, 22nd August, 1848, which states the declared value of some of the principal exports to British North America to be as follows, in the year 1847:—Cotton manufactures, £606,614; woollen manufactures, £586,151; iron and steel, £342,166; apparel, slops, and haberdashery, £356,006; linen manufactures, £147,670; hardware and cutlery, £166,994; cordage, £102,807; silk manufactures, £117,425; leather, saddlery, and harness, £73,754; brass and copper manufactures, £32,515; earthenware, £52,869; hats, £35,984; soap and candles, £46,671; stationery, £54,157; glass, £33,890; tin wares, £19,809; umbrellas and parasols, £8,372; apothecary wares. £16,377; musical instruments, 5,129; painters' colours, £24,403; plate, watches, &c., £17,020; books, £19,013; cabinet wares, £7,548; fishing tackle of all sorts. £39,496; lead and shot, £9,126; and various other articles—the whole amounting to £3,231,480 declared value, which is far less than the real value.

The principal articles imported into the United Kingdom from the British North American Colonies in 1847, consisted of timber not sawn or split, 590,557 loads; deals, battens, or other timber sawn or split, 494,084 loads; staves, 32,308; ashes

(pearl and pot), 99,718 cwts.; wheat, 87,199; quarters; wheat and flour, 1,079,940 cwts.; beef salted, 1,272 cwts.; pork do. 8,004 cwts.; fish, 83,486 cwts.; oil (train and spermaceti), 10,324 tuns; skins and furs undressed, viz., bear, 5,870; beaver, 23,132; fox, 27,102; lynx, 32,299; marten, 150,048; mink, 42,850; musquash, 260,982; otter, 8,021; seal, 443,438; wolf, 10,730. The following statement shews the—

Exports from Canada by Sea (exclusive of Timber), for the years 1838 to 1847 inclusive.

Years	Ashes	Butter.	Beef	Barley	Flour.
	barrels	lbs	barrels	bushels	barrels
1838	29,454	80,536	439	146	59,204
1839	25,480	72.248	2,310	130	48,427
1840	24,498	403,730	3,685	60	815,612
1841	22,012	211,497	2,968	4,504	356,210
1842	27,641	542,511	9,608	867	294,799
1843	34,916	374,207	7,195	6,940	209,957
1844	35,743	460,800	5,568	63,755	415,467
1845	30,916	812,475	2,140	27,626	442,228
1846	26,011	786,701	2,826	6,287	555,602
1847	19,243	1,036,555	1,890	23,012	651,030
Years	Oatmeal	Peas	Pork.	Wheat	Oats.
	barrels	bushels.	barrels	bushels.	bushels
1838	522	1.415	8,868	None	None.
1839	50	2,855	6,479	3,336	
1840	6,008	59,878	11,230	142,059	_
	4,567	123,574	14,795	562,862	
1841					
1841 1842	6,754			204,107	5.666
1842 1843	6,754 5,327	78,985 88,318	40,288	204,107	5,666 3,651
1842 1843 1844	6,754 5,327	78,985 88,318	40,288 10,684	204,107 144,233	3,651
1842 1843 1844 1845	6,754	78,985 88,318 130,355	40,288 10,684 11,164	204,107 144,233 282,183	3,651 24,574
1842 1843 1844	6,754 5,327 6,725	78,985 88,318	40,288 10,684	204,107 144,233	3,651

CHAPTER VI.

REVENUE, EXPENDITURE, AND FINANCIAL STATE OF CANADA; BANKS, COINS, CIRCULATING MEDIUM; PRICES OF PROVISIONS, WAGES OF LABOUR, WEIGHTS AND MEASURES; PROPERTY, MOVABLE AND IMMOVABLE; SUMMARY ADVICE ON "SEPARATION" OR "ANNEXATION," &c.

REVENUE.—At the period of the British conquest of Canada the public income was very trifling; in 1806, it amounted to £29,116, and the expenditure was £35,134. The revenue of Eastern and Western Canada stood thus in the undermentioned years:—

	Reve	nue Rec	eıpts	E	penditu	re
Years	Eastern Canada	Western	Total	Eastern Canada	Western	Total
	£	£	£	£	£	£
1824	83,309	61,566	144,875	83,763	43,553	127,316
1839	147,254	157,627	304,881	165,991	196,310	362,330
1842	United	,	349,483			476,304
1847	,,	l	506,826	_	_	458,021
1849	Estimate	d	574,640	l —	-	565,403
	ı			ļ	,	

The annual revenue of the province is derived from Custom duties, about £450,000. of which one-third is yielded by the inland ports on the lakes, and United States frontier; the remainder consists of sea Customs. The Excise yields £30,000 a year, which is obtained from the licensing of shops, inns, stills, ale and beer houses, auctioneers, steam-boats, hawkers and pedlars, and bilhard-tables, and from a duty on auction The Tolls from public works are estimated for 1849, at £50,000; m 1847 the gross receipts were £83,333; viz.: from canals, £50,131; harbours, £4,643; bridges, £1,094; locks and slides on the Ottawa and Trent rivers, £5,702; roads, £21,763. territorial revenue is from £20,000 to £25,000 a year; of this sum the crown lands yielded in 1847, £22,330.

Tariff or Custom Duties.—Under the authority of an act of the Imperial Parliament, passed in the 9th and 10th years of her majesty's reign, c. 94, entitled, "an act to enable the legislatures of certain British possessions to repeal or reduce certain Custom duties," the Canadian legislature passed an act, No. one, 10 and 11 Vic., c. 31, on 28th July, 1847, repealing certain imperial acts, 9 and 10 Vic., c. 94, and 8 and 9 Vic., c. 93, and various provincial acts, and imposing the following duties in lieu of all other duties of Customs inwards:—

Duty Currency Animals .-£ s. d Cows and Heifers, each 1 26 Calves, each 0 5 0 Goats, each . 0 26 Horses, Mares, Geldings, Colts, Fillies, Foals, each 15 0 Kids, each $\mathbf{2}$ 1 Lambs, each 0 Oxen, Bulls, Steers, each 1 15 Pigs (sucking), each 0 0 6 Swine and Hogs, each . 0 5 Sheep, each . 0 2 Candles — Wax or Sperm, the lb. Tallow, the lb 0 0 0 0 All other kinds 0 0 Chocolate, the lb. 0 0 2 Cocoa, the lb. 0 01 0 Coffee, Green, the lb. 0 0 Roasted, the lb. 0 0 Ground, the lb. 0 Corn Brooms, the dozen O 1 3 Fish, Salted or Dried, per 112 lbs. 0 50 Pickled, the barrel Flour, the barrel of 196 lbs. 0 Fruit, viz -Almonds, the lb. 0 0 1 Apples, the bushel 0 0 Ditto, dried, the bushel 0 1 0 Currants and Figs, the lb. 0 0 1 Nuts of all kinds, the lb 0 1 0 1 0 Peaches, Pears, and Quinces, the bushel Prunes, the lb. Raisins-Muscatel, Bloom, and Bunch, in boxes, the lb. 0 1 Ditto, otherwise, the lb. 0 1 Glass - Window and Common German Sheet Glass, per box of 50 feet . . . Grain, viz. —Wheat, Barley, Buckwheat, 1 3 Bere, Bigg, Rye, Beans, and Peas, the 3 0 quarter Maize or Indian Corn, the quarter of 3 0 480 lbs. Oats, the quarter . 20 Meal of the above Grains, and of Wheat not bolted, the 196 lbs 2 0 0 3 Bran or Shorts, the 112 lbs. . 0 0 0 3 Hops, the lb Honey, the lb. 0 1 India Rubber Boots and Shoes, the pair . 0 74 Leather, viz .- Goat Skins, tanned, tawed, 5 0 or in any way dressed, the dozen Lamb or Sheep Skins, tanned, tawed, or 26 in any way dressed, the dozen . Calf Skins, tanned, tawed, or in any way 0 4 dressed, the lb. 0 0 2 Kip Skins, the lb. Harness and Upper Leathers, the lb. 0 11 0 0 2 Sole Leather, the lb. Leather cut into shapes, the lb. 0 0 4 04 Patent or Glazed Leather, the lb. 0 All Leather not above described .

Dut	y Cı	urre	ency	Duty Currency
	£	8	d	£ s. d.
Leather Manufactures, viz -				Sugar —In which are preserves, per cwt 1 6 6
Women's Boots and Shoes, the dozen .	0	•	6	Succades, including Confectionary, 20 per
Girls' Boots and Shoes under 7 inches in				cent ad valorem, and on the lb . 0 0 2
length, the dozen, including all kinds	- 0	2	6	Syrups, except Spirits, the gallon 0 1 0
Children's Boots and Shoes over 3 inches				Tea, the lb 0 0 $2\frac{1}{9}$
in length, the dozen	0	- 2	6	Tobacco, VIZ .—Unmanufactured, the lb 0 0 11
Infant's Shoes under 3 inches in length,		-		Manufactured, the lb 0 0 2
	0	- 1	6	Snuff, the lb 0 0 6
the dozen	ŏ		0	Cigars, the lb
Men's Boots, the pair				
Men's Shoes, the pair	0	•	71	Wine—(in addition to 10 per cent on the
Boy's Boots under 8 inches in length,	_		_	value, including cask and bottles)-
the pair	0	1	0	the old Wine gallon 0 1 0
Boys' Shoes under 8 inches in length,				Wood —Staves, Standard or Measurement,
the pair	0	(4	per mille 1 5 0
Liquids, not Spirituous, viz -				Puncheon or West India, viz -
Ale and Beer in Casks, per gallon .	0	0	4	White Oak, per standard mille . 0 10 6
Ditto in Bottles, per dozen	0	1	. 3	Red Oak . 0 7 6
Cider and Perry, the gallon	0		1 1 3	Ash and Barrel ,, . 0 4 0
Vinegar the callon	ō		3	Deals, Pine, per Quebec standard 100 . 0 15 0
Vinegar, the gallon Maccaroni and Vermicelli, the lb.	ŏ		1 1 1	Spruce ,, ,, 0 7 6
Malanca and Tracala the ent	ŏ	4	0	Handspikes, per dozen 0 0 3
Molasses and Treacle, the cwt	ŏ		5	
Oils —Olive in casks, the gallon				
Ditto in jars or bottles, the gallon .	0		3	Planks, Boards, and all kinds of Sawed
Lard, the gallon	0		5	Lumber not herein charged with duty,
Linseed Oil, the gallon	0		21/2	per 1000 superficial feet, inch thick,
Sperm Oil, the gallon	0	0	6	and so in proportion for any greater
Other Oils from creatures living in the				thickness 0 7 6
sea	0	0	1	Pine, White, and in proportion for any
Paper, &c -Coarse or Wrapping, the cwt.	0	2	9	smaller quantity thereof, per 1000
Printing, the cwt	0	5	0	cubic feet 1 5 0
Writing, the cwt.	0	10	0	Red, per 1000 cubic feet 1 15 0
Drawing, Music, Marbled or Glazed,	-		-	Oak, per 1000 cubic feet 2 15 0
Tissue, Bristol or Drawing Cards, the lb.	0	0	1 ;	Birch, per 1000 cubic feet 2 10 0
	ŏ		0	Birch, per 1000 cubic feet 2 10 0 Ash, Elm, Tamarack or Hacmatac, and
Pasteboard and Cards, the cwt	ŏ	3		
Milled or Trunkmakers' Boards, the cwt				other woods not herein charged with
Playing Cards, the pack	0	0		duty, per 1000 cubic feet 1 5 0
Potatoes, the bushel	0	0		The following Articles shall be hable to a duty of One
Provisions, viz —Butter, the cwt	0		6	pound on every One hundred pounds of the value
Cheese, the cwt	0	5	0	
Meats -Bacon and Hams, ditto salted,				thereof —
ditto pickled, the cwt	0	6	0	Ashes, Anchors and chain cables; Bark; Burr
Bacon and Hams, fresh, the cwt	0	4	0	stones, unwrought, Berries, nuts, vegetables, and
Rum, for every gallon (of old wine mea-				woods, used in dyeing, coals, coke, and cinders, Cotton wool and cotton yarn, Copper in bars, pig,
sure) proof by Sykes' Hydrometer, all				Cotton wool and cotton yarn, Copper in bars, pig,
Spirits above that strength to be re-				sheathing, and sheet, Cocoa nut oil, Drugs used
duced to equivalent of proof	0	1	3	solely for dyeing, Flower roots, Fire wood, Grease
Sweetened or Mixed, per gallon	ŏ		Ö	and Scraps, Hides, Hardwood for furniture, unman-
Salt from Munos known as Pools Salt and	U	v	v	ufactured, Hay, Hemp, flax, and tow, undressed,
Salt, from Mines, known as Rock Salt, and	^	1	e	Indigo, Iron, bar, rod, and nail, boiler plates, pig,
Salt made from Sea Water, per ton .	0	T	6	railroad have corone and old for ra-malting. Tunks an
Coarse, made from Salt Springs, per		_	•	railroad bars, scraps, and old for re-melting; Junk or
bushel	0	0	2	oakum, Lard, Lead in pig, Marble in block, unpo-
Fine or Basket and stoved 5 per cent.				lished, Oars of all metals; Palm oil, Resin; Saw
ad valorem and per bushel	0	0	2	logs, Straw, Sheet and hoop iron; steel in bar; Stone
Spices, viz — Cassia, Cinnamon, and				for building; Soda ash; Tallow; Teasles, Tin, sheet
Cloves, the lb	0	0	21	for building; Soda ash; Tallow; Teasles, Tin, sheet and block; Trees, shrubs, bulbs, and Roots; Type
Nutmegs, the lb	0		5	metal, in blocks or pigs, Tar and pitch; Wool;
Pimento, Pepper, Ginger, and Allspice,	-	_		Woollen yarn, Yellow metal.
the lb	0	0	1	•
Mace, the lb			4	The following Articles shall be liable to a duty of Five
	0	v	*	pounds on every One hundred pounds of the value
Spirits, except Rum, as of Proof, the old	^		•	thereof:—
Wine gallon	0	2	U	Books, printed, unbound, or in sheets; Drugs, being
Sweetened or Mixed, including Bitters,	_	_	_	in a crude or unprepared state, except dye stuffs;
per gallon	0		0	Furs, skins and peltries, dressed or undressed; Gums;
Sugar —Refined or Candy, per cwt	1	7	6	Rice Shander Tortoge shall Wire ire-
Muscovado, per cwt.	0	15	3	Rice, Shingles; Tortoise shell; Wire, iron.
Clayed Sugar (10 per cent. ad valorem)				The following Articles shall be hable to a duty of Seven
and per cwt	0	15	3	pounds ten shillings on every One hundred pounds
Bastard, per cwt (and £10 for every	-	-		of the value thereof —
£100 value)	0	12	0	Books, blank, bound, unbound, or in sheets; Burr
,	•		-	,, bound, andound, of the sheets; Duit

stones, wrought; Chicory; Chains; Cotton, manufactures of; Cordage; Canvass; Camblets and cambletines; Cane work, Casks, empty; Casts in plaster of Paris or composition, unless their material is otherwise charged with a higher duty, Drawings, engravings, maps, globes, Extracts and essences used as medicines; Earthen and stoneware, Furs and skins, manufactures of, Fins and skins, the produce of creatures living in the sea; Feathers; Flowers, artificial, not silk, Goods, whose foundation is wool, Glass manufactures, not otherwise described; Gunpowder, Guns and fire-arms; Gold and silver leaf, Hair, manufactures of, Horns, horn tips and pieces; Hardware, shelf goods, and cutlery, Hats, Hemp, flax or tow in any way dressed; Juice of limes, Lemons or oranges, not mixed with spirits or sweetened, so as to be syrup; Ink, printers', Ivory, bone, and horn, manufactures of, Lead, manufactures of, Lead for paint not ground with oil, Lead ground in oil for paint; Linen and linen manufactures, Mules and asses, Mustard, Medicines; Musical Instruments of wood, Mercury, Marble, polished or cut, Oil or spirits of turpentine; Oil, castor, Oil, all not other-wise enumerated, Oil cloth, Oysters, lobsters, turtles, and all other shell fish, fresh; Paints, unground, Paints, water colours, Paint brushes; Quills, Silk, raw; Silks, manufactures of, not millinery made up, Silk, all goods being in whole or part silk, not otherwise specified, Silks, sewing, cord, and tassels, Spermaceti, except candles, Spunge, Starch, Straw boards for bookbinders, Sulphur; Tiles and roofing, Toys, Turpentine; Thread, linen, Vetches, Varnish, Whalebone, Worsted, manufactures of, Woollen, manufactures of, Wax, Wax, manufactures of, exc pt candles, Wood, all manufactured articles of, having no part metal, and all goods, wares, and merchandizes, not otherwise charged with duty, and not herein declared to be free of duty.

The following Articles shall be hable to a duty of Ten pounds on every One hundred pounds of the value thereof —

Biscuits and crackers; Bastard sugar, together with 12s. per cwt., and clayed sugar, with 15s 3d per cwt., Cork and cork manufactures, Eggs, Fruit, unenumerated, Leather manufactures not described; Machines for agricultural purposes, except threshing machines and fanning mills; Meats prepared otherwise than by salt or pickle, Musical instruments of metal, Oil, animal, except lard—vegetable, not otherwise enumerated—essential, chemical and volatile, perfumed, Paper manufactures not otherwise charged with duty; Plate and plated ware, Poultry, alive, or dead, Sausages and puddings; Seeds, garden, flower, and vegetable; Soaps of all kinds, Vegetables, fresh; Wine, in addition to 1s. a gallon, old wine measure.

The following Articles shall be hable to a duty of Twelve pounds and ten shillings for every One hundred pounds of the value thereof —

Axes and scythes; Billiard and bagatelle balls of wood and ivory; Balls used at bowls or nine pins Billiard tables; Bagatelle tables; Camphine oil, Carriages and vehicles; Carriages and vehicles, parts of, Castings; Clocks and watches; Clocks and watches, parts of, Dice; Flowers, artificial, in part or whole silk; Fanning or bark mills, Jewellery, set or unset; Machinery of all kinds and parts thereof; Silk millinery made up; Silk velvet; Threshing machines and fanning and bark mills.

The following Articles shall be liable to a duty of Fifteen pounds on every One hundred pounds of the value thereof —

Extracts, essences, and perfumery, not otherwise provided for, Fish, preserved in oil, Fruit, preserved; linger, preserved; Pickles and sauces.

The following Articles shall be liable to a duty of Twenty pounds on every One hundred pounds of the value thereof —

Roulette tables; Succades and Confectionary made of sugar, either in whole or in part, in addition to 2d. per lb.

Table of Exemptions—Anatomical Preparations when imported expressly for the use of any college or school of anatomy or surgery, incorporated by royal charter or act of Parliament, not imported for sale

Copies of the Holy Scriptures printed in the United Kingdom of Great Britain and Ireland, and not

imported for sale

Books and Maps and Illustrative Drawings, imported for the use of any library to which the public may have free admission, as also for the libraries of either branch of the legislature.

Com and Bullion.

Donations of Books or Clothing specially imported for the use of, or to be distributed gratuitously by any charitable society in this province.

Fish, fresh, not described

Horses and Carriages of Travellers, and horses, cattle, and carriages and other vehicles, when employed in carrying merchandize, together with the necessary harness and tackle, so long as the same are bona fide in use for that purpose, except the horses, cattle, carriages, and vehicles, and harness, of persons hawking goods, wares, and merchandizes through the province for the purpose of retail, and the horses, carriages, and harness of any circus or equestrian troop for exhibition. The horses, carriages, caravans, and harness of any menagerie, to be free. Horses and cattle belonging to persons coming into the province for the purpose of actually settling therein.

Hides, Offal, and Tallow of cattle and swine, slaughtered in bond.

Manures of all kinds.

Models of Machinery, and of other inventions and improvements in the arts

Packages containing dutiable articles

Philosophical Apparatus, instruments, books, maps, stationery, busts, and casts of marble, bronze, alabaster or plaster of Pans, paintings, drawings, engravings, etchings, specimens of sculptures, cabinets of coins, medals, gems, and all other collections of antiquities, provided the same be specially imported in good faith for the use of any society incorporated or established for philosophical or literary pursuits, or for the encouragement of fine arts, or for the use or by the order of any university, college, academy, school, or seminary of learning within this province.

Philosophical Apparatus, &c., &c., imported for use by any public lecturer for the purpose of gain, and to be re-exported, shall be allowed to be entered under bond of two good and sufficient persons for their exportation within the specified time.

Arms or Clothing which any contractor or contractors, commissary or commissaries, shall import or bring into the province for the use of her majesty's army and navy, or for the use of the Indian Nations in this province. Provided the duty otherwise payable would be defrayed or borne by the Treasury of the United Kingdom or of this pro-

Specimens of Natural History, Mineralogy, or Botany. Seeds of all kinds, farming utensils and implements of husbandry, and animals for the improvement of stock when specially imported in good faith by any society incorporated or established for the encouragement of agriculture

Wearing Apparel in actual use, and other personal effects not merchandize, implements and tools of trade of handy-craftsmen, in the occupation or employment of persons coming into the province for the purpose of actually settling therein.

[The native produce and manufactures of all or any such of the other British North American colonies as shall admit the native produce and manufactures of Canada free of duty, shall be entitled to exemption from duties under this act, with the exception of spirituous liquors]

Also Salt, salted or cured meats, flour, biscuits, molasses, cordage, pitch, tar, turpentine, leather, leather-ware, fishermen's clothing, and hosiery, fishing craft, utensils and instruments imported into the district of Gaspé from the United Kingdom or the Channel Islands or neighbouring colonies, for the use of the fisheries carried on therein, subject to such regulations as the principal officer of Customs at the port of Quebec shall make, and which he is hereby empowered to establish for the purpose of ascertaining that such articles are bona fide intended to be applied to the use of such fisheries

The following articles are prohibited to be imported, under a penalty of Fifty pounds, together with the forfesture of the Parcel or Package of Goods in which the same shall be found -Books and Drawings of an immoral or indecent character. Coin, base or counterfeit.

In this tariff Canada levies higher duties on British manufactures than has been hitherto authorised by the Imperial Parliament; -viz.: 71 per cent.: -the previous tariff was at the rate of 5 per cent. There is at present no distinction made between British and foreign goods; it is in fact a free import tariff, except in so far as is necessary for the obtainment of a provincial revenue. England receives no favour whatever on the export of her goods to Canada: the Canadians are at liberty to "buy in the cheapest, and sell in the dearest market;" and the alteration in the navigation laws enables them to employ the shipping of any country, which can carry their goods with the greatest economy. It cannot be said that the "mother country" has sought any advantage from its government of this province of the empire.

The gross amount of revenue from customs at the principal stations in Eastern

and Western Canada, was in-

1842.	1843.	1844.	1845.	1846.	1847.	1848.
£	£	£	£	£	£	£
. 72,923	55,843	77,879	74,425	78,652	70.831	63,325
152,403	102,482	223,690	227,765	179,596	171.285	140,499
. 17,759	22,350	36,016	41,165	40,422	45,411	22,341
7,604	12,191	16,989	22,011	20,726	26,768	30,326
. 8,390	17,603	25,105	22,195	33,529	32,678	27,752
6,826	9,278	18,527	19,924	19,273	17,584	10,937
2,278	3,771	8,368	10,857	11,512	9,7651	
. 10,723	18,052	34,754	36,614	38,602	40,309	38,849
. 278,906	141,570	441,328	434,956	422,312	414,631	334,029
. 33,991	30,741	33,846	30,082	18,702	33,056	29,614
. 51,775	97,862	6,570	25,783	23,906	26,284	51,959
. 18,535	25,751	38,347	28,957	39,340	50,131	46,493
. 1,664	4,450	3,822	4,360	4,340	4,643	3,663
. 210	563	229	1,432	1,334	1,094	1,590
		1,560	2,478	9,300	5,702	4,368
	3,250	300	3,816	7,170	21,763	22,499
	1	1	1			
				61,486	83,335	78,613
				10,614	9,470	_
			7,198	2,391	31,307	51,519
			13,538	13,006	40,778	
. 16,369	26,076	21,443	27,501	48,480	42,557	-
	£ 72,923 152,403 17,759 7,604 8,390 6,826 2,278 10,723 278,906 33,991 51,775 18,535 1,664	£ £ 72,923 55,843 . 152,403 102,482 . 17,759 22,350 . 7,604 12,191 . 8,390 17,603 . 6,826 9,278 . 2,278 3,771 . 10,723 18,052 . 278,906 141,570 . 33,991 30,741 . 51,776 97,862 . 18,535 25,751 . 1,664 4,450 . 210 563 . 210 563 . 3,821 3,250 . 24,232 34,604 . 1,282 2,320 . 6,580 6,207 . 7,862 8,527	£ £ £ 77,879 162,403 102,482 223,690 17,759 22,350 36,016 7,604 12,191 16,989 8,390 17,603 25,105 6,826 9,278 18,527 2,278 3,771 8,368 10,723 18,052 34,754 278,906 141,570 441,328 33,991 30,741 33,846 51,775 97,862 6,570 18,535 25,751 38,347 1,664 4,450 3,822 210 563 229 88 — 618 1,560 102,32 34,604 4,259 103,22 34,604 4,259 104,22 24,232 34,604 4,259 105,240 210 1,282 2,320 3,524 16,580 6,207 19,292 17,862 8,527 22,816	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

The revenue raised for local purposes in billiard-tables, hawkers, pedlars, steam-boats, ment, including duties on shops, distilleries, Excise

Western Canada is shown in the annexed ale and beer houses, and the taxes for statement, which exhibits the value of general local purposes, and exclusive of the assessed property in Western Canada, as taxes and values in the various cities and rated under provision of an act of parlia- incorporated towns, except the general

D				
Districts in Western Canada.	Value of Property.	Pro- vincial	Distrie*	Total
	£	£	£	£
Bathurst	329,410	142	2,607	2,749
Brock .	357,156	333	4,320	4,654
Colborne	386,794	242	2,358	2,601
Dalhousie	397,080	384	2,370	2,754
Eastern	436,550	827	3,243	4,071
Gore .	846,066	3,031	8,740	11,772
Home .	1,105,396	2,803	10,957	13,761
Huron	148,754	261	1,188	1,449
Johnstown	459,789	1,230	4,909	6,160
London .		1.076	8,620	
Midland	462,583	2,226	4,031	6,258
Newcastle	265,271	2,335	5,100	7,435
Niagara	519,536	922	5,909	6,831
Ottawa	111,418	120	1,208	1,328
Prince Edward	316,703	127	2,345	2,473
Simcoe	224,485	233	3,135	3.368
Talbot	288,646	753	2,692	3,446
Victoria.	285,171	240	2,135	2,375
Wellington	477,613	1,515	7.066	8,582
Western .	434,235	587	4,849	5,436

Total

The tax for schools and school-houses, in 1848, amounted to £29,668; ditto building and supporting lunatic asylums, £4,348. Great portions of the taxes for district purposes are raised for temporary objects, such as repairs of particular works, building gaols and lock-up houses, while the school-rate includes a very large sum for building The general average of taxschool-houses. ation in Western Canada for purely district purposes, is about 3d. on the valuation in the districts; in cities and towns it is differently regulated.

In all new countries the value of the labour in erecting houses is much greater than that of the materials used. In Canada, the dwellings of the earlier settlers are generally termed "shanties." Such dwellings are

not hable to any taxes. The houses taxed in Western Canada

since 1827 have been-

1827. | 1832 | 1837 | 1842 | 1847 No. of Houses! 9.889 14.550 22.057 42,737 Additional fire-9,218 places . . 1.592 2,080 2,591

Value asses4. £ 352,304 514,667 751,883 1,235,189 1,679,496

The assessments, it is stated, are very much below the actual value of the property assessed. They merely indicate the value according to the rate prescribed by the provincial act regulating assessments in Upper Canada. By that act, the highest value at which a house is rated is £60, or if containing more than two fire-places, £10 more for every additional fire-place. Houses therefore, that have cost from £300 to Every waggon kept for pleasure, £15.

value of £60. So also mills and other valuble buildings. Cultivated land is valued at £1 per acre, though its actual value may, on the average, be estimated at £5 per acre. Uncultivated lands are valued at 4s. per acre, though the government sell none for less than twice that price. It would not be unsafe, therefore, to multiply the amount of the assessed value by 5, to arrive at an approximation to the actual value of the property in Upper Canada. Thus. $£7,189,901 \times 5 = £35,699,555.$ calculations take no account also of a large amount of local public property, yielding a onsiderable annual revenue, such as turnpike roads, market buildings, &c., belonging to local corporate bodies, and to the several districts.

The local taxes or district rates are collected from each individual, at the rating of one penny in the pound, according to the quantity of land and other property he may possess, agreeably to the assessed value fixed by law, viz. -

Every acre of arable, pasture, or meadow land, £1: every acre of uncultivated land. 4s; every town lot, £50. Every house built with timber squared or hewed on two sides, of one story, with not more than two fireplaces, £20; ditto for every additional fire-place, £4. Every house built of squared or flatted timber on two sides, of two stories, with not more than two fire-places, £30; ditto for every additional fire-place, £8. Every framed house under two stories in height, with not more than two fire-places, £35; ditto for every additional fire-place, £5. Every brick or stone house of one story, and not more than two fire-places, £40; every additional fire-place, £10. Every framed brick or stone house of two stories and not more than two fire-places, £60; ditto for every additional fire-place, £10. Every grist mill, wrought by water, with one pair of stones, £150; ditto with every additional pair, £50. Every saw-mill, £100. Every merchant's shop, £200. Every storehouse, £200. Every stone house, £199. Every horse of the age of three years and upwards, £8. Oxen of the age of four years and upwards, £4. Milch cows, £3. Horned cattle, from two to four years and upwards. £4. Every close carriage with four wheels, kept for pleasure, £100. Every open carmage, or curricle, ditto, £25. Every other carriage, or gig, with two wheels, ditto, £30. £3,000 are, in these returns, rated as of the Every stove erected and used in a room where there is no fire-place, is considered as a fire-place.

Every person inserted on the assessment roll is, in proportion to the estimate of his ways or roads in every year, as follows .- If annexed :his property be rated at £25, 2 days; ditto £25 to £50, 3 days; ditto £50 to £75, 4 days; ditto, £75 to £100, 5 days; ditto £100 to £150, 6 days; ditto £150 to £200, 7 days; ditto £200 to £250, 8 days; ditto, £250 to £300, 9 days; ditto £300 to £350, 10 days; ditto £350 to £400, 11 days, ditto £400 to £500, 12 days.

For every £100 above £500 to £1000, one day: for every £200 above £1000 to £2000, ditto; for every £300 above £2000 to £3000, ditto, for every £500 above £3500,

Every person possessed of a waggon, cart, or team of horses, oxen, or beasts of burthen or draught used to draw the same, to work on the highways 3 days Every male inhabitant, from 21 to 50, not rated on the assessment roll, is compelled to work on the highways 3 days. Persons emigrating to this province, intending to become settlers, and not having been resident 6 months, are exempt; and all indigent persons, by reason of sickness, age, or numerous family, are exempt at the discretion of the magistrates

Any person hable may compound, if he thinks fit, by paying 5s. per day for each cart, &c., and 2s. 6d for each day's duty; to be paid within 10 days after demand made by an authorised surveyor, or the magistrates can issue their distress for double the amount and costs.

By subsequent resolutions for raising £500,000 for making roads, the Canadians resolved :-

1st. That for the purpose of providing the ways and means for payment of the interest on the sum of £500,000, to be expended on the public highways in this province, that the statute labour, now by law required to be performed, be commuted for a certain sum to be paid in lieu thereof 2nd That the sum at which the commutation be

fixed be 2s 6d for each day 3rd That the following additional rates be imposed on the inhabitants of this province, the proceeds whereof to be applied to the payment of the interest of the said sum of £500,000—Every horse (not being a stallion used for covering mares), gelding, or mare, over three years old, 1s 3d; stallion used for covering mares, 2s.; single-horse pleasure waggon, 2s 6d.; two-horse pleasure waggon, 5s.; two-wheeled carriage used for pleasure, 5s.; four-wheeled open carriage used for pleasure, 10s; four-wheeled close carriage used for pleasure, 15s, four-wheeled carriage used for the conveyance of passengers, £2 10s a still. £5.

EXPENDITURE.—At the period of the reumon of the provinces in 1840-41, a permanent civil list was agreed to, and became a part of the act of union; viz.: 3 and 4 Vic., property, held hable to work on the high- c. 35, to which the following schedules were

annexeu:						
	SCI	HEDUI	E A.			
Governor .						£7,000
Lieutenant-Gove	rnor					1,000
TT . O 7						-
Western Canada						4 700
1 Chief Justic		0001		•	•	1,500
4 Puisne Judg	ges, at	9001.	eacn	•	•	3,600
1 Vice Chanc	ецог	•	•	•	•	1,125
Eastern Canada-	_					
1 Chief Justic	e, Que	bec				1,500
3 Puisne Judg	res. Qu	iebec.	at 900	01. ea	ch .	2,700
1 Chief Justic	e. Mor	itreal				1,100
3 Puisne Judg			l. at 9	00% e	ach	2,700
1 Resident Ju	dge at	Thre	e Rive	ers		900
1 Judge of t	he Inf	erior	Distri	et of	St.	
Francis						500
1 Judge of th	e Infer	ior Di	strict	of Ga	spé	500
Pensions to t						
Attorneys a	nd So	licitor	s-Gen	eral.	and	
Contingent						
penses of						
throughout	the I	rovin	ce of	Cana	ıda.	20,875
	-	- 4	-	Oute	uun	
						£45,000
	SCI	EDUI	E B.			2 20,000
Civil Secretaries	and th	neir O	ffices	_		8,000
Provincial Secre	taries	and th	eir O	ffices		3,000
Receiver-Genera	l and	his Of	fice			3,000
Inspector-Gener	al and	his O	ffice			2,000
Executive Coun						3,000
Board of Works						2,000
Emigrant Agent	t .					700
Pensions .						5,000
Contingent Exp	enses o	of Pul	olic Of	fices		3,300
6 r						
Gross To	tal .					£75,000
			•			,

In 1847 the payments under schedule A, umon act, £37,818; provincial act, £8,561 = £46,379. under schedule B, union act, £20,589, provincial act, £9,997 = £30,586. Total, £76,967.

The total military cost of the Canadas in the year 1847, for payment of troops and commissariat expenses was, Regulars, officers, 222; non-commissioned officers and men, 5,474, payment, £196,609. Artillery, officers, 36; men, 627; payment, £24.721. Royal Engineers, officers, 26; no men; payment, £10,918. Commissariat expense of the whole, £37,433. total payment, commissariat expenses of the Canadas for 5 years, ending 31st of March, 1847, was £1,726,213; of which sum £212,715 was commissariat. The British expenditure for the flotilla of the Royal navy employed on the lakes, was in 1847, £8,724, of which £4,904 consisted of wages to officers and seamen.

The estimates voted annually in the Imperial Parliament for Canada, consist of two items; the first is £11,578 for the clergy in North America. For this amount the faith of the British government is pledged to several religious bodies, viz.: to the clergy of the Church of England annually, £7,711; to the presbyterians in connexion with the Church of Scotland, £1,582; ditto, in connexion with that of Canada, £700; to the British Wesleyans, £700; and to the Roman catholic bishop and priests of that church, Second, between £14,000 and £1.500. £15,000 a year are voted annually for the North American Indians, in payment of their lands, as stated at page 138.

for 1848, was:—

Interest on Provide	ncial D	ebt				£166,014
Ditto on Turnpike	e Trusts			_		3.172
Civil Government	of East	ern	and l	West	orn	0,2.2
Canada .	01 1343	, LI	and	11 030	CIII	99 004
	•			•	•	33,804
Administration of		•				68,082
Provincial Penite	ntiary					15,000
Legislature .						29,231
Education .						64,870
Agricultural Soci	eties					9,376
Hospitals and oth		ntie	s			12,709
Public Works, ex				out	of	,
guaranteed le						12,167
Mılitia						1.847
Light-house main	tenance		-		-	4,828
			•	•	•	752
Emigration and	L uarant	ane	•		•	
Pensions .						10,846
Miscellaneous						22,222
Indian Annuities						6,655
Redemption of P	ublic D	ebt				15,000
	Total					£474,491

The expenditure of \$29,231 for the legislature includes, salaries and contingencies, £20,921; printing the laws, £3,127; re-The sum of turning officers, £4,733. £10,846 for pensions, includes militia, £3,779; legislative, £544; judges, £2,058; schedule B (union act), £4,193. The miscellaneous £20,222 includes, rent and repairs, &c. to public buildings, £10,150; rent of bishop's palace, Quebec, £1,111; assessment on property at Quebec and Montreal £1740; expense of the provincial penitentiary commission, £1,500, and other items.

The militia pensions include, 26 militiamen of Eastern Canada, at £13 10s. per annum, £351, disabled during the war; 96 militia-men of Western Canada, at £18 £1,728, disbanded during the rebellion; 11 widows of militia-men killed during the late war, £18 each, £198 = 90 widows and the Quebec fire,—secured by mortgages on children of militia-men who died on service real property. The following is a detailed during the late rebellion, £18 each = £1,620.

The civil pensioners of the province in 1846 were in number, 60, and of varying sums from £900 down to £18 a year. The total civil and military pensions for 1846, amounted to £11,461.

FINANCIAL STATE OF CANADA.-It has been stated in the history of the province (see pages 35-36), that previous to the re-union of Western with Eastern Canada, the Upper or Western portion, had contracted a large public debt, in the making of canals, &c. In June, 1841, the total outstanding debt of Western Canada was stated to be £213,671 in currency, and £869,650 in sterling; the debt of Eastern Canada at the same period was £113,975 currency; total currency, The expenditure of the whole province £327,646, and sterling, £369,650, together in sterling, £1,335,720. Of these sums the debt in sterling, (£869,650) paid 6 per cent. interest in England; of the currency debt, £5,500 paid 8 per cent interest, £282,206, paid 6 per cent.; £73,940, paid 5 per cent.; and the remainder from 51 to 57 per cent. per annum. At the period of the re-union of the provinces, in 1840-41, the British government guaranteed a loan for Canada of £1,500,000, to be employed in public works. Other loans have since been contracted, and the habilities of Canada on the 31st of January, 1849, stood as follows in

sterling money —			
sterning money —	e		
	T.	ь.	u.
Imperial Guaranteed Loan	£ 1,500,000	0	0
Debentures, principal and interest,			
navable in London	1,018,375	7	7
Ditto, payable in Canada	530,729		
Ditto, in small Debentures	71,749	6	4
Unfunded Debt	102,985	3	11
Balance at credit of the Consoli	•		
dated Revenue Fund	170,855	19	9
Redemption of Debt .	291,041	10	10
Special Funds managed by the	-		
Province	418,021	8	3
Debentures issued by way of loan	•		
on security of specific taxes or			
mortgage	133,315	10	4
Sinking Fund	44,000	v	0

Of this total of £4,281,074 sterling, £3,703,781 have been expended on various public works, which now yield a net revenue of £60,000 to £80,000 a year, and is annually increasing. The debentures, £133,315, have been loaned on ample security to the commissioners for erecting the Toronto Lunatic Society; to the Law Society at Toronto; and to the sufferers by

Total

. £4,281,074 6 10

which are unequalled for their	r magn	itu	de
and utility, by those of any oth	er posse	2881	on
of the British crown.	£	8.	d.
St. Lawrence Canals 1	,442,314	1	8
Welland Canal 1	,394,022	8	8
Chambly Canal	86,409	7	10
Improvement of River Richelieu			_
Lake St. Peter	74,500	0	0
Burlington Bay Canal	48,376	13	7
Ottawa Works	81,979		
Harbours and Lighthouses	266,504		10
Improvement of the Trent'.	135,445		10
Roads and Bridges, Western Canada	530,384		4
Ditto Eastern Canada	268,326		
Provincial Penitentiary 1	34,207		
Miscellaneous Works	31,507	11	2
Losses by Public Works and			
otherwise	112,288	14	7

Halifax Currency £4,506,267 9

Sterling at 24s. 4d. £3,703,781 0 4
Explanatory Remarks.

These Canals are the Lachine, Beauharnois, Cornwall, and three smaller ones. "The works have been constructed" says Mr Hincks, "in the most substantial manner, and they are unequalled on the American continent."

The Chambly Canal connects the St. Lawrence and Richelieu with Lake Champlain. Business is

increasing rapidly through it.

This money has been expended in making a new channel through Lake St. Peter. There has been great difference of opinion as to the propriety of deepening the old channel or forming a new one, and the works are at present suspended.

⁴ The slides on the Ottawa have been of immense advantage to the lumber trade, and yield a fair

return for the capital invested.

*Tolls are charged on all the Government Harbours sufficient to meet the interest of the expenditure. Such works are of the utmost importance, affording, as they do, facilities for the export of the produce of the country. They are principally on the shores of Lakes Erie and Ontario.

f The improvements on the Trent are principally slides to facilitate the operations of the lumberers in

the county of Peterboro'.

These are macadamised or plank roads on which tolls are exacted, and toll bridges. They have been of the greatest advantage to the people, and though at first tolls were strongly objected to, the people now pay them most cheerfully, and are anxious for the continuation of such works.

^a This amount is very far short of the actual cost of the Penitentiary, the remainder having been

defrayed out of the current revenue.

'This account is charged with various kinds of losses, and is in fact analogous to the profit and loss account of a merchant. It includes the amount lost by the failure of a house in London some years ago, (Thomas Wilson and Co., for £66,040) and losses by exchange and otherwise.

Up to the 1st of July, 1844, there has been expended on the improvements of the St. Lawrence, £325,576; including Beauharnois Canal, £162,281; Lachine Canal, £45,410; Cornwall Canal, to June, 1843 £57,110; Lake St. Peter, £32,893.

Lockage and Canals on the St. Lawrence.

	Nv. of locks.	Canal Miles.
The Galloppes	2 ,	, 2
Point Iroquois	1	
Rapide Plat	2	
Farren's Point	1	04
Cornwall Canal	7	11
Beauharnois	9	111
	22	321

The assets of the province consist of the public works which may fairly be valued at £4.000,000 sterling. The entire revenue from those works, after deducting £20,000 currency per annum, is permanently appropriated as a sinking fund, for the redemption of the debt incurred in their construction. £44,000 is also invested by the Bank of England in 3 per cent. consols, on account of the provincial sinking fund, Out of £170,855 balance at the credit of the consolidated revenue fund, Mr. Hincks states, 'it is probable that £100,000 will be transferred to the account, Redemption of the Debt, this will make the amount at the redit of that account, about £391,000, to which must be added the sinking fund of £44,000 (in the 3 per cent. consols) showing a saving out of the annual revenue of £435,000 sterling, or upwards of half a million currency, since the union of the provinces." Canada, in fact, has done more than England, for it has provided a sinking fund for the ultimate redemption of its debt; and it has assets to show, and even to sell or mortgage, which would liquidate the debts incurred. Taking the whole debt of Canada at £4,500,000 currency, and the annual revenue at £600,000 currency, the debt of Canada does not exceed seven and a half years of its income. Taking the national debt of the United Kingdom of Great Britain and Ireland at £800,000,000, and the annual revenue at £60,000,000, the debt is equal to thirteen and a half years of the public income. Again, taking the debt of Canada at £4,500,000 currency, and the population at 1,500,000, the proportion of public debt due by each individual is fiftyone shillings; taking the debt of Great Britain and Ireland at £800,000,000, and the population at 28,000,000, the proportion of public debt due by each individual in the United Kingdom, is five hundred and seventyone shillings. And it must be remarked, that while Canada has provided a unking fund, which at compound interest would in a given period pay off her whole debt, England has no sinking fund, has no assets to represent its debt, and has provided no means for the ultimate liquidation of her

The population of Canada is increasing with wonderful rapidity; property is augmenting in value faster than population, for the waste lands of the province are every day being converted from useless areas, into productive fields; and blessed with internal peace, and protected against foreign aggression by its being a part of a great empire interested in its preservation, and zealous for its integrity and honour, Canada may look forward to the fulfilment of all its obligations, and to a high career of prosperity.

The debt and liabilities of Canada are thus stated in the "Blue Book" for 1846.-

In England-bearing interest at 5 per cent by debentures, exclusive of the guaranteed loan, £1,068,375.

In Canada-viz · in Upper Canada debentures, and debentures of Canada, £328,772

By "Upper Canada" debentures, are understood those issued before the union of the provinces, in 1840-41, under acts of the Upper Canadian legislature. "Canada debentures" are those issued since the union, under acts of the united legislature.

Provincial Debentures of Lower Canada, vested in Trustees for Works (the interest | will be seen from the following returns:-

only being guaranteed by the province, and all paying except the first two) .- Chambly Canal, £35,000; Turnpike Trusts, Quebec, £38,850 = £68,850 at 6 per cent., £4,130; Longuel and Chambly Trust, £15,000; Montreal Harbour, £90,925; Turnpike Trusts, Montreal, £47,000 = £221,775 interest paid by commissioners.

Redemption of Public Debt-Being balance to meet rise or fall in exchange, £5,275.

New English Loan.—£1,363,000 sterling. interest at 4 per cent., £60,458 16s. 103d.

The debt in England is all at 5 per cent. per annum; of the £328,772 due by Canada debentures, £144,910 bears interest at 5 per cent.; £175,112 at 6 per cent.; £5,000 at 5% per cent, and the remainder at rates varying from 2 to 6 per cent. according to the age of the debt.

Periods of redemption of the English loan (1,068,375): in 1854, £200,000 redeemable; in 1855, £400,000; in 1857, £224,150; in 1858, £45,500; m 1863, £77,725, m 1866, £121,000 = £1,068,375.

The Canadian loan of £328,772 is redeemable at different periods, from the year 1847 to 1874, in which last year £42,580 is payable.

BANKING INSTITUTIONS .- The sound state of the monetary institutions of the province

Banking Returns, 31st January, 1849, compiled from the Returns laid before the Provincial Parliament.

2									
Liabilities, Assets, &c	Banque du Peuple	Bank of Montreal	Commercial Bank	Bank of Upper Canada	Quebec Bank	City Bank	Gore Bank	Bank of B N America Cana- dian Branches	Totals
Liabilities —	£	£	£	£	£	£	£	£	£
Promissory Notes in circula- tion not bearing interest Bills and Notes in circulation	32,144	249,286	157,049	149,610	44,911	116,001	66,353	185,834	1,001,188
bearing interest	_		_				_	16,203	109,309
Balance due to other Banks	12,255	30,451	12,129	34,357		3,914	-	16,203	109,509
Cash Deposits not bearing in- terest Cash Deposits bearing interest	21,386 23,372	154,734 67,880	45,392 27,663	76,949 11,068	35,653 16,800	19,943 18,092	12,991 18,167	161,978	712,068
Total average of Liabilities	89,157	502,351	242,233	271,974	97,364	157,950	97,511	364,015	1,822,565
Assets — Com and Bullion Landed and other Property of	10,339	155,049	52,396	27,355	15,904	20,614	13,538	84,294	379,489
the Bank Government Securities	13,126	45,455 10,200	23,206	31,935	6,500 12,000	12 341 95,750	5,025	=	137,588 117,950
Promissory Notes or Bills of other Banks	3,447	20,581	11,019	13,082	658	13,857	7,945	20,857	91,446
Balances due from Banks and foreign agents. Notes and Bills discounted, or	1,486	31,732	34,496	15,952	4,296	10,357	21,955	19,041	139,315
other debts due to the Bank not above included	263,022	1,096,996	558,573	564,459	166,417	304,186	169,093	854,917	3,977,663
Total average of Assets	291,420	1,360,0 3	679,690	652,783	205,775	457,305	217,546	979,109	4,843,451

Note -The return under the head "Notes and Bills discounted," for the Gore Bank includes a claim of £40,000 on the estate of Read, Living, and Co., of London.—City Bank Bills of Exchange, £3,863

The circulation per month of the Canadian banks, is about £1,300,000 to £1,500,000 The average circulation of the Bank of dollar to 5s.; English shilling, 1s. 1d; pista-Montreal, is £500,000; City bank of Montreal, £230,000; Commercial bank, Midland District, £200,000; Bank of Upper Canada £200,000; Gore bank, £100,000; Quebec bank, £80,000; Banque du peuple, £85,000; Bank of British North America, branches, £250.000. All the banks issue notes as low as 5s. There is no provincial metallic currency; the amount of British coin in circulation cannot be ascertained, it is small in proportion to the entire circulating medium; the Canadians, like the Scotch, prefer their own bank notes to metal.

There are several Savings' Banks in

Canada.

The Montreal Savings' Bank owes to depositors £84,366 Montreal City and District do. do. . 44,560 The Quebec Provident and 31,772 do. do. The Hamilton and Gore do. do. 5,745

> Total £166,443

The British America Fire and Life Assurance Company has a subscribed capital stock of £100,000, of which £35,000 has been paid on 7,989 shares The amount of property insured against fire during the year ending 31st of January, 1849, was £800,305. The premium received, £6,737; amount of losses paid during same period, £3,243; losses under adjudgment, 1,363; present liability under 1,170 policies, £727,489, insured against dangers of navigation, £173,466; premium received for the year, £3,326; losses paid, £2,258, losses under adjudgment, £1,000. The St. Lawrence Inland Marine Assurance Company, has a subscribed capital of £100,000, of which £15,000 is paid up. Property insured during 1848, £433,407; premium on ditto, £5,996; losses paid during the year, £3,009. losses under adjudgment, £900.

Monies.—Accounts are kept in Halifax currency, by which a guinea (weighing 5 dwts. and 6 grs) is equal to 24s. 4d currency; a sovereign to 23s. 3d.; a Joannes (a gold coin, weighing 18 dwts) to £4; a mordore (weighing 6 dwts. and 18 grs.) to £2; and an eagle (weighing 11 dwts. and 6 grs.) to 50s. The gold, Spanish, and French coins are—a doubloon (17 dwts.) £3 14s. 6d.; Louis-d'or, coined before 1793. (5 dwts. 4 grs.) £1 2s. 8d.; the pistole, ditto, piece, coined since 1792, (8 dwts. 6 grs.) £1 16s. 2d.; the twenty-franc piece (4 dwts.

3 grs.) 18s. 4d. In silver coins the crown is equal to 5s. 6d.; Spanish and American reen, 10d.; French crown, coined before 1793, 5s. 6d.; French piece of six francs, 5s 6d.; five-franc piece, 4s. 8d.; American dollar, 5s.; and so on. The coins in most dollar, 5s.; and so on. general circulation are dollars of various denominations.

Accounts kept in £ s. d. To change Halifax currency (4 dollars = £1 currency) into British sterling, deduct one-tenth. change British sterling into Halifax cur-

rency, add one-ninth.

WEIGHTS AND Measures. — English weights viz., pound, troy, and avoirdupois. The standard wine gallon is the liquid measure of the province; the Canada minot for all grain, &c, except where specially agreed on to the contrary; the minot is an eighth larger than the Winchester bushel. Paris foot for all measures of land granted previous to the conquest; the English for all since that era. The arpent is for all other measures English, unless it may be otherwise agreed on. For rough calculations, 100 acres superficial are equal to 100 arpents.

The acts 4 and 5 Vic. c. 88 and 89, passed for the inspection of flour and meal, and beef and pork, make the following provisions,

Meat -Barrel of Pork (contents not less than 30, nor more than 31 gallons wine measure) to contain 200 lbs of meat

Tierce of ditto (45 to 46 gallons) 300 lbs. Barrel of Beef (28 or 29 gallons) 200 lbs. Therce of ditto (44 or 45 gallons) 300 lbs.

And the barrels and tierces in proportion Flour -A barrel, 196 lbs net weight; Indian meal,

168, and oatmeal, 200 ditto.

Grain, Pulse, &c , purchased by weight, as follows — wheat, per bushel, 60, Indian corn and rye, 56, barley, 48, oats, 34, pease, 60; beans, 50; clover and Timothy seeds 60, and grass seeds, 48 lbs

AVERAGE PRICES OF VARIOUS PRODUCE. It is very difficult to give this correctly; the best result attainable is but an approximation, because prices depend materially on the English and New York quotations, and vary with every mail. The different seasons have an effect upon the markets, and also the means of transport to markets, as traffic is chiefly confined to the cities and towns. During winter a considerable rise takes place, in consequence of the consumption of the "lumber" men. In 1845, hay sold as high (4 dwts. 4 grs.) 18s 3d.; the forty-franc as from 27 to 30, and even 35 dollars a ton; oats, barley, and Indian corn proportionally.

In Montreal and Toronto provisions are

sold at a dear rate, but in the rural districts articles of food are comparatively cheap.

The following are the average prices in sterling money, for Western Canada, returned to her majesty' government for 1845:—

Wheaten flour, per barrel of 196 lbs., 20s to 25s; wheat, per 60 lbs. bushel, 3s 6d to 5s.; oats, 1s to 1s. 2d.; y, y, 2s. to 2s. 9d; and barley, 1s. 8d to 3s dper bushel; wheaten bread, loaf, of 4 lbs, 6d to 7d; potatoes, 1s to 2s. per bushel; horned cattle, £5 to £15; horses £10 to £30; sheep, 10s. to 17s 6d; swine, 15s to 25s; turkeys, 2s to 3s 6d, and geese, 1s 3d to 1s. 9d per couple; eggs, 5d to 10d per dozen, milk, $2\frac{1}{2}d$. Der quart; butter, 6d to 9d; cheese (Canadian), $4\frac{1}{2}d$ to 6d; beef, 3d, mutton, $2\frac{1}{2}d$; pork, $3^{1}d$; coffee, 1s; tea, 2s 6d to 5s, and sugar $4\frac{1}{2}d$ to 7d per 1s; tea, 2s 6d to 5s, and sugar $4\frac{1}{2}d$ to 7d per 1s; and, 3s 4d to 3s 9d; and beer, 10d to 1s, per 280 lbs; wine (plain), 5s to 16s; brandy, 4s, 6d to 4s 9d; and beer, 10d to 1s, per gallon; tobacco, $7^{1}d$. to 1s. 2d per 1s; hay, £35 to £40 per ton. All these are highest in winter, and are according to the city of Toronto market lists.

Wages for Labour.—Domestic, 15s to 25s, predial or agricultural (with board), 27s to 50s, (without board), 50s to 70s per month, trades, 3s 9d to 6s. per day

The difference of prices and wages of labour in Quebec and Montreal with those of

Toronto are small.

The timber trade is a large staple of Canada, and the following list of prices at Quebec may be useful:—

White pine, in the raft, accor			8	d	£	8	d
ing to quality and siz	es	,					
measured off		0	0	6 to	0	0	6
Do, in shipping order, do.		0	0	61	0	0	7
Red pine, in the raft, 32 to	37	7		-			
feet average		0	0	81	0	0	9
Do, new do, 37 to 45 do		0	0	91	0	0	10
Do, 40 feet average in sh	ıp	-		_			
ping order		0	0	10	0	0	10
Oak, Lake, in the raft	٠	0	1	4	0	1	5
Rideau, do		0		11	0		3
Interior .		Θ	0	7	0	0	9
Elm, according to average,	, ir						
shipping order .		0	0	8	0	0	10
Ash		0	0	5 1/2	0	0	7
Birch		0	0	9	0		0
Tamarack and Hackmatac		0	0	4	0	0	6
Staves, standard, per mille		40	0	0			
W. O. Pun.			10	0	13	0	0
" Red oak, do		7	10	0	8	0	0
" Barrel		4	0	0	5	0	0
Ash		6	10	0	7	0	0
Pine deals, in the raft, float	ed			_		_	_
first	•		10	0	10	0	0
Do., do., seconds .	•		10	0	6	10	0
Do., do., thirds	٠.	3		0	3	15	0
Do., Bright, 2-3rds for 2nd	ds	10	0	0	11	0	U
Spruce deals, firsts .	•	7	10	0			
Do., seconds	•	5	10	0		15	0
Do , thirds		3		9		_	
Handspikes, in the raft	•	0		9		6	0
Do, in small parcels .	•		10	0			
Oars, according to specifi	ca	-			_	_	_
tion, per pair	*	0	3	0	0	-6	0
					_	_	_

Note.—Parties in Britain will bear in mind, that when tumber is sold in the raft, the charges for ship-

ping are from 7½ to 10 per cent; and for dressing, allowance for culls, and butting, the expense at times is very great.

PROPERTY IN CANADA.—An estimate of the movable and immovable wealth of ach colony, and of the property annually created therein, must necessarily afford an indication of their relative degree of importance and progress; but the almost impossibility of obtaining sufficient accurate information on the subject renders it exceedingly difficult to form even an approximate calculation.

Property annually created.—Nearly every male adult in Canada is a producer: the non-productive class, such as paupers, and the number of persons deriving their support from professions or from funded property, is comparatively very small. Taking the population of Eastern and Western Canada at 1,500,000, the value of the necessaries and luxuries required for their annual support cannot well be estimated at less than one shilling a-day, or £18 a-year for each individual,—equal to £27,000,000 per annum. If we estimate the amount of property annually produced and not consumed, but added to the movable or immovable property, at sixpence-halfpenny a day for each person, or about £10 per annum = £15,000,000, the total value of the property annually produced in Canada, according to this estimate, is £42,000,000. In round numbers it may be quoted at fifty million sterling per annum.

Movable and Immovable Property in Eastern and Western Canada.—There are in the united province five million acres of cultivated and improved land, which, if valued with their farm buildings, &c., at £10 per acre, give a landed property of £50,000,000; about ten million acres of occupied and assessed land, valued at £1 per acre = £10,000,000; and at least fifty million acres unoccupied, but fit for cultivation, at 5s. per acre = £12,500,000. hundred thousand houses of all kinds, except shanties, at least £50 a house = £5,000,000; furniture, £20 for each house = £2,000,000; apparel and personal property, £5 each per-Saw and grist mills, son = £7,500,000.manufactories, distilleries, breweries, tanneries, factories, &c., about five thousand, at Timber to the £200 each = £1,000,000. value of at least one million sterling, may be cut annually for the next fifty years = Horses, 250,000, at £10 £50,000,000. each = £2,500,000. Oxen, milch cows, £3,200,000. Sheep, 1,300,000, about 20s. each = £1,300,000. Swine, 1,000,000, at 10s. = £500,000.Ships, steamers, boats, and barges, valued at £1,500,000. Merchandize, about £2,500,000. Capital invested in joint-stock banks and other public companies, £1,500,000. Capital represented by canals, wharfs, docks, and slides, about £6,000,000; roads and streets, £1,500,000; forts, barracks, military works, and government buildings, £2,000,000; churches, gaols, hospitals, nunneries, and public buildings, £2,000,000 the whole giving a grand total of about £117,500,000, as the estimate of the value of movable and immovable property in the province of Canada.

These statements indicate the progress which Canada has made, but it has been asserted that Canada and the other British possessions in North America have evinced little energy or marks of improvement, more particularly when compared with the United States. A writer in the Quebec Gazette has undertaken to refute this prevailing idea, and says, that "Facts and figures show that the progress of the North American Colonies of Great Britain, since 1783, when the United States were finally separated from the mother-country, has been nearly equal, all things considered, and, in some respects, superior to that of those States in all the principal points to which the political economist looks for the evidences of prosperity." He then proceeds to compare the progress from 1784 to 1836, in exports, imports population, and shipping, thus .-

Nova Scotia, C Bre-	Impts	Exports	Pop	Tons
ton, and Prince Ed- ward's Island	75000		32000	12000
Canada	500000	150000	113000	95000
Newfoundland .	80000	70000	20000	20000
	655000	233500	155000	127000
1836				
Nova Scotia	1245000	935000	150000	374000
Canada	2588000	1321750	1200000	348000
Newfoundland	632576	8500334	70000	98000
Cape Breton	80000	90000	35000	70000
Prince Edward Island	46000	90000	32500	23800
New Brunswick	250000	700000	164000	347000
UNITED STATES	5841586	3987078	1651500	1260800
1784	4250000	1000000	3000000	500000
1836		121000000	15000000	

"Now. these figures (collected carefully from the sources of information mentioned underneath,* and

and young cattle, 800,000, at £4 each = from others) show that the increase of the Shipping of the North American Colonies since 1784 has been nearly tenfold, while that of the United States has been only fourfold; that the population of these Colo-nies, 'the thews and sinews' of production and enterprise, has increased in the same period ten-fold, while that of the United States has only increased

"Under the head of Imports, it is true that the United States have increased about forty-fold, and of Exports more than 120-fold-while we can only count an increase in the former of about nine, and in the latter of about seventeen times. But compare the range of Export and Import in the one case and the other. From 1784, to the present time, our neighbours have had the free range of the world, going and coming; while the Colonies, until com-paratively a very recent period, were confined to the trade with the mother-country, and with the other Colonies, and even in the West India market they had to encounter the competition of the Americans, whose greater proximity and cheaper outfit gave them an advantage Again, it is to be remembered, that in 1784, when the comparison begins, the Americans started in the world with double the population-four times the shipping, six times the import trade, and more than four times the export trade, than the Colonies then had; so that the ratio of increase was not only greater at the outset, but went on increasing by a kind of compound geometrical progression. And, lastly, there was, and is, this important difference and disadvantage to our North Amercian Colonies, that their whole maritime coast line presented but three or four accessible ports suitable for commerce, and that Canada, the principal Colony, is winter-locked six months in the year, while the whole American coast, from Machias to New Orleans, broken and indented with multiplied bays, harbours, rivers, and inlets, is open at all seasons, studded long since with the populous seats of a busy commerce, which had planted itself as early as 1784 in at least ten of the principal positions it now holds

"These calculations of colonial statistics are so far from being exaggerated, that they may rather be charged by some with being below the truth It is also to be borne in mind, that in the amount of Colonial exports and imports given above, those of Upper Canada inland and lake trade are not included, the materials of information not being im-

mediately accessible.

"That province, like New Brunswick, has in fact been created out of the wilderness since 1784, (excepting, always, a very small French Acadian population in remote corners of each province), and in no part of the British North American dominions has the expansive power of British enterprise been more remarkably shown than in these two junior provinces."

If the writer had carried his data down to 1848, he would have presented the British North American Colonies in a still more favourable comparative view. Western Canada doubles its population in about 10 years; the United States in 25 years.

Colonial Dictionary; Bliss, Atkinson, and Haliburton's pamphlets on the North American Colonies; Colonial Population Returns.

Holmes' American Annals, Lord Sheffield's Pam-phlet on American Trade, 1789, Tench Coxe; Bristid's America, Anderson's commerce, Haliburton's Nova Scotia; Smith's Canada; M'Gregor's Colonies Martin's

most favourably situated between the At- they have received such substantial advanlantic and Pacific Oceans, possess fisheries, mines, forests, and arable land of almost tively of little importance to England; she incalculable value, an extent of continuous rose triumphant in power after the far navigable waters such as no other country greater privation consequent on the declaraenjoys, and every element conducive to the promotion of individual wealth and happiness. These provinces do not vet contain a Providence, there was added to her dominpopulation of much more than two million: they could maintain with ease fifty million territory than she had lost in the West. inhabitants; and at the present rate of increase of cent. per cent. every decade, that States republic, would but hasten the period number would be attained in less than 50 vears.

SUMMARY.—I may perhaps be excused recapitulating some of the leading facts in the history of Canada which well deserve serious consideration, especially at the present critical period in colonial policy.

Since the conquest of Canada from the French in 1759, England has regarded with careful solicitude the affairs of that country. her ablest men have been selected as its governors; civil and religious liberty has been fully conferred upon the Canadians, to whom land has been granted by the Crown with unbounded liberality, the funds of the British exchequer have been spent without stint in the construction of canals, roads, forts, and public works, and the unparalleled naval and military power of England employed in preserving the colonists from hostile incursions. For more than 50 years a monopoly was given to the Canadians for the sale of their timber in the markets of the United Kingdom, and for the vending of their "lumber," fish, and food, in the British West Indian colonies.

The result of this policy, which may without exaggeration be termed maternal, has been a rapid augmentation of individual and of provincial wealth; and an enormous increase of population, accompanied by a more than proportionate augmentation of the what source it may, its injurious effects are necessaries and even luxuries of life. Now, having received from Britain all that a helpless child needs from a kind parent, it is for that the loyalty, good sense, and apprethe Canadians themselves to declare whether ciation of their true interests, which the they will remain part and parcel of the glorious empire which nurtured their infancy, fostered their more matured growth, and ous theories and idle speculations which made them participants in every privilege are fraught with so much practical evil which England so happily possesses. Or to Canada, by impeding commerce, preventmisled by demagogues, intoxicated by false ing the flow of capital and emigration, and doctrines, ungrateful for past benefits, and diverting the stream from the country which unmindful of present good, whether they it would fertilize and adorn.

The British North American colonies are will repudiate the connection from which

res. The separation would be comparaion of independence of the United Amerian Colonies in 1776; and, under Divine ons in the East a larger and more useful The annexation of Canada to the United when that, like all other extensive Continental governments, must, under the operation of disintegrating principles, separate into independent states—a disunion which the experience of every age shews would probably be soon followed by rivalry and hostility.

It would, also, be well for those who favour the idea of separation to "count the cost," since, without violating the first principles of justice and common honesty, no declaration of independence could be made on the part of the Canadians without involving the creation of a Canadian debt to reimburse the people of England for the large sums which have been expended from the Home Exchequer in and for Canada. In the ordinary course of private life, what man would be justified in repudiating when it suited his convenience or caprice a connection formed when he was struggling for existence, from which he had derived all the advantage, and of which the burthens had been borne by his colleague.

It is, however, very probable that the opinions concerning the expediency of separation which have been lately promulgated originate in the factious agitation of a few interested or unreflecting individuals, and do not express the deliberate conviction of any considerable portion of either the English or French Canadians.

But let the present clamour arise from beyond dispute. and it is impossible to close the subject without reiterating the hope Canadians have heretofore evinced, may be speedily exerted to extinguish the mischiev-

BOOK IL-NOVA SCOTIA.

CHAPTER I-GEOGRAPHICAL POSITION AND HISTORY.

North America by an isthmus only 8 miles them back to France. wide. It is situated between 43° 25' and

HISTORY -Nova Scotia was probably first visited by the Cabots in their voyage of discovery in 1497, but the earliest authentic ponds; without any port, and producing the patent Nova Scotia. nothing but briars.

a most wretched and emaciated state, by remained after the destruction of Port

THE province of Nova Scotia is an extensive Chetodol, the pilot of the Marquis de la pennisula, connected with the continent of Roche, whom the French king sent to bring

Acadıa was the name given to Nova 46° N. lat., and 61° and 66° 30′ W. long. Scotia, New Brunswick, and part of the On the N.E. and N. it is bounded by the State of Maine by the French, and the most Bays of Fundy and Chignecto, the boundary vigorous essay on their part for its settleline which separates it from the county of ment was made in 1604 by a private gentle-Westmoreland in New Brunswick, Bay man, named De Monts, who obtained from Verte, and the Northumberland Strait, which Henry IV. the dominion of the colony and divides it from Prince Edward's Island; the monopoly of the fur trade throughout on the E. by the Gulf of St. Lawrence and its whole extent. An account of his expedithe Gut of Canso, which separates it from tion has already been given in the history Cape Breton Island; and on the S. and W. of Canada. The little colony formed at by the Atlantic Ocean Its extreme length Port Royal, now Annapolis, was taken posfrom E. to W. is stated by Bouchette at session of in 1614 by the English governor 383 English miles, but this is evidently a and colonists of Virginia, who claimed the typographical error, as it cannot exceed 300, country by right of the discovery of Sebasand was probably calculated by him at 283. tian Cabot, and considered the French Its breadth varies greatly, between Chester colonists of De Monts as encroachers or and Black Rock Pier it being about 50 miles, intruders on the charter granted to the Plyand between Bristol Bay and the head of mouth Company, in 1606, which extended Bay Verte 104. The area is stated by Hali- to 45° of N. lat.; the right of occupancy burton at 15,617 square miles, or 9,994,880 being then considered invalid, and the doctrine admitted that in the first instance

"All a man sailed by or saw was his own."

Eight years elapsed after the destruction account we possess concerning its coloniza- of the French settlements in Port Royal and tion is of the attempt of the Marquis de la other parts of Acadia before the English Roche, who, by order of Henry IV., sailed began to think of establishing themselves on from France in 1598, with a number of con. the peninsula. In 1621 Sir William Alexvicts, forty of whom he landed on the small ander applied for and obtained from James I. and barren island of Sable, situate about a grant of the extensive country, lying on fifty leagues to the S.E. of Cape Breton, the E. side of a line drawn in a northern about ten leagues in circumference, inter- direction from the river St. Croix to the spersed with sand-hills and fresh-water Gulf of St. Lawrence, which was named in

About a year after the sealing of this After cruising some time on the coast of grant, Sir William Alexander despatched a Nova Scotia, the Marquis was compelled by number of emigrants to take possession of stress of weather to return to France, leav- the country, who, after wintering at Newing on Sable Isle the forty unfortunate con- foundland, arrived in the spring of 1623 at victs who had been landed there. Seven Nova Scotia, which they found occupied by years after, twelve only were found alive, in the survivors of the French settlers who had

Royal, to whom were added emigrants from French settlers were suffered to establish the St. Lawrence and France; under these themselves in different parts of the country. land. In return, each was bound to fit out treaty of Breda in 1667. six men for the colony, or to pay 2,000 merks.

land and France, efforts were made by Sir leaving any garrison behind him. William Alexander and his friends to drive French, of course, resumed the government, the French from Nova Scotia, and in 1628, although the English retained a nominal a squadron under Kirtek, the famous French possession, sometimes fighting for a district, refugee, reduced the forts of Port Royal, at others ravaging the French settlements; St. Croix, and Pentagort; but the French until, by the treaty of Ryswick in 1697, the settlement of Cape Sable still held out, nor colony was once more restored to, or rather did the English obtain complete possession left unmolested under the dominion of of the country. by Kirtck, and sent to England, had been again conquered it should not be restored there induced to second Sir William's views to France. by introducing a party of Scotch emigrants into Cape Sable; in this attempt and other 550 men, was despatched under colonel subsequent ones he was unsuccessful, in con- Church, and 3 years afterwards a force of sequence of the determined opposition of his 1,000 soldiers was sent to complete the close of the civil war in England, Oliver loss. Cromwell, who contributed so much to raise was retained by Sedgewick's troops; and ment, an armament sailed from Boston Bay

circumstances the adventurers thought it The son and heir of Claude de la Tour made prudent to return to England, where they his submission to the English, and in conpublished most flattering reports of the junction with Thomas (afterwards Sir Thobeauty, fertility, and salubrity of the region mas) Temple and William Crowne, petitioned they had so unsuccessfully visited. In 1625 Cromwell for a grant of the principal part of Charles I. confirmed his father's grant to Sir what now composes Nova Scotia and New William Alexander, and created the order Brunswick, in right of the transfer made by of Knights Baronets of Nova Scotia, whose Sir William Alexander. This suit was sucmembers were to contribute their aid to the cessful. William Crowne Temple purchased settlement. Their number was not to ex- La Tour's share, re-established the different ceed 150; they were each to hold jurisdic-settlements, and expended £16,000 in retion over a tract extending three miles along pairing the fortifications; but when the the coast, and ten towards the interior, and colony was emerging from distress and to receive in full property 16,000 acres of obscurity, it was ceded to France by the

For the following 20 years the colony Pre-eminence was to be given them over all enjoyed repose, and some progress was made knights called equites aurati, but none of in establishing fisheries, and extending the them were to be baronets of Nova Scotia, or fur trade, but upon the renewal of hostilities of Scotland, till they had fulfilled the condi- in 1689, it was still deficient in means of tions prescribed by his majesty, and ob- defence, and Port Royal was easily taken tained a certificate of performance from the by Sir William Phipps, with a squadron governor of the colony. The patents were from Massachusetts. Phipps, after disrattified in parliament. mantling the fortress, and burning some On the war breaking out between Eng- other places, quitted the colony, without Sir William at length, France. This peaceful state of things was wearned by the unsatisfactory results of his soon disturbed by the war of the Spanish endeavours, and the heavy expenses atten- succession in 1702, and preparations were dant on them, conveyed a large section of his made for the total subjugation of Nova territory to Claude de la Tour, a French Scotia to the British arms, with a distinct protestant, who, having been taken prisoner assurance on the part of the crown, that if

The first expedition, which consisted of son, who held the fort during his absence. conquest of the country; but the ability In 1632 Charles I. surrendered Nova Scotia and energy of Subercase, the French com-(as before mentioned) to Louis XIII., who mander, obliged the assailants twice to raise immediately took possession of it. At the the siege of Port Royal with considerable

The New Englanders instead of being the glory of the British name, sent out disheartened, seem rather to have been Major Sedgewick with an armed force, and stimulated by these failures to more vig-Nova Scotia again fell into the possession of orous exertion. After two years of strenuous the English. Only Port Royal, however, effort, with the aid of the British governa garrison of only 260 men, surrendered stretching along towards the S.W." after a short siege, and obtained an honour-Nova Scotia to the British Crown. the civil affairs of the province. tually made to the most opulent traders at neutral French. St. Malo, Nantes, and Bayonne, but no one England, on the 11th April, 1713.

on the 18th September, 1710, under the those which he towards the E., within 30 command of general Nicholson, and arrived leagues, beginning from the island comat Port Royal on the 24th. Subercase having monly called Sable, inclusively, and thence

In 1714 general Nicholson arrived as able capitulation, which was signed on the governor, and proposed to the Acadians 2nd October, and is memorable as the comesther to become subjects of the crown of mencement of the permanent annexation of Great Britain, and retain their possessions, In with the free enjoyment of their religion as compliance with the terms of this deed, the far as was compatible with the laws of Eng-French troops and governor were removed land, or to leave the country within a year. from the colony, the name of Port Royal The people showed themselves equally rewas changed to Annapolis in honour of luctant to accept either alternative; the Queen Anne, colonel Vetch was appointed governor having orders not to use harsh governor, and a council formed of the prin-neasures towards them, knew not how to cipal inhabitants, for the management of act, and the prescribed time having elapsed, The they were suffered to remain, although they French court became sensible of the extent constantly refused to take the oath of of their loss, and anxious to re-conquer Port allegiance. In 1719 colonel Phillips suc-Royal, but the state of affairs in Europe ceeded to the governorship, and, at length, prevented their sending any considerable a large proportion were with difficulty preexpedition for that purpose. Offers were vailed upon to take the oath. Although no made on the part of the king of France, to express reservation was made in it, exemptthe merchants of Rochelle, and promises of ing them from bearing arms against the profit and reward held out, on condition of French, yet, there is reason to believe that their forming an association sufficiently a promise of not being required to do so powerful to drive the English from the was given them, and they were consequently country; similar applications were ineffect known among the other colonies as the

The male population capable of bearing appeared willing to take charge of the expe- arms, amounted at this period to about dition, or to incur the heavy expenses it 4,000 men; of these from 1,200 to 1,300 would necessitate. Vaudreuil, the governor were settled in the capital and its neighof Canada, was urged to attempt the re- bourhood, and the rest were dispersed on covery of Port Royal; but, although fully the several rivers of the province. Neither sensible of its importance, he was deterred rents nor taxes were exacted from them, by the threatened invasion of his own coun- and they were allowed to continue their try. He appointed Baron Castine to the trade with France and her dependencies. chief command in Nova Scotia, with in- Meanwhile, the Indians, on being informed structions to foster the hostile feelings of the that they and their lands had been trans-French settlers towards the English; and ferred from the French to the English he wrote to the priests, urging them to re- crown, appealed to Vaudreuil, who informed double their zeal in retaining the affections them, that no mention was made either of of their Indian proselytes. His instructions them or their lands in the treaty of Utrecht, were fully carried out, and resulted in the and, although there could be no doubt as renewal of hostilities, in the midst of which to the real meaning of both parties in peace was concluded between France and forming that treaty, he, nevertheless, affected to consider the Indians as an independent By the 12th article of this treaty, known people, and maintained among them an as the peace of Utrecht, all Nova Scotia, interest separate from the English, who with its ancient boundaries, as also the city vainly endeavoured to keep on friendly of Port Royal, and the inhabitants of the terms with them. In 1720 a numerous same, were ceded to Great Britain, "in party of Indians plundered a large fishing such ample manner and form, that the sub- establishment, which had been erected by jects of the most Christian king shall be the English at Canseau, and was much hereafter excluded from all kinds of fishing frequented during the summer by traders in the said seas, bays, and other places on from Massachusets, carrying off fish and the coast of Nova Scotia, that is to say, on merchandise to the value of £20,000; and in 1723 thev captured at the same place, obedience to his instructions, the French 17 sail of fishing vessels, with numerous prisoners, 9 of whom they put to death with deliberate cruelty: 7 of these vessels were afterwards retaken with 15 captives, and 1,500 quintals of fish, but not without a severe contest with the Indians, who lost about 30 men on board the several prizes. They shortly afterwards attacked the garrison at Annapolis, burned 2 houses near the fort, killed and scalped a sergeant and a private, and took several prisoners.

Nova Scotia were a part of the great Abenaqui nation, and the whole of these people acknowledged the Baron Castine, a son of the old baron (named in the history of Canada p. 6), by an Indian woman, as their affray at Annapolis, Castine had been captured and imprisoned at Boston, but had been released, partly from a dread of exacknowledged himself a subject. The conaid of Massachusets, from whence an expechief Indian fort on the Kenebec, where they surprised the enemy, defeated them with great slaughter, and put to death le Pere Rallé, a catholic missionary, who had lived among them 40 years. Judge Haliburton, the talented historian of his native Rallé, whose death is stated by Charlevoix self-defence, when firing upon them, and refusing either to give or take quarter. to take possession of his paternal estate, determined on not returning to the country, and as the destruction of Norridgewoack mutiny, capitulated on the 18th June. was followed by decided measures, the savages were for a time overawed.

In 1744 war recommenced between France and England. De Quesnal, governor of Cape Breton, immediately fitted out expeditions, which took Canseau, and twice £600,000, were decoyed into them. laid siege ineffectually to Annapolis. De news of these events created a powerful Quesnal was tempted to these proceedings effect on the conduct of both the English by his knowledge of the unprepared state of and French governments. The French were the English garrisons, but he acted in dis- greatly alarmed, and determined to seek

government having desired him not to attempt the capture of any post in Nova Scotia until further orders: under the wellgrounded apprehension that, as Louisburg was also insufficiently garrisoned, the English colonists might retaliate by attempting the reduction of that important place, which being well situated for fishing, had been fortified by the French at an expense of £1,200,000, with a view to make it the bulwark of their possessions in North America. The Indians of the western portion of It was surrounded by a stone wall two miles and a half in circuit, and by a ditch 80 feet wide. Shirley, governor of New England, proposed to attack it, and preparations were made with great energy for the dangerous enterprise, the enthusiasm of the chief sachem or leader. Previous to the troops (consisting solely of militia and volunteers) being increased by the preaching of Mr. Whitfield, the famous dissenting minister, who furnished a motto, while a asperating the Indians beyond all hope of chaplain carried on his shoulder a hatchet reconciliation, and partly from a difficulty of to demolish images. Massachusetts conconsidering him a traitor who had never tributed 3,200 men, Connecticut 500, and New Hampshire 300, who embarked in a tinued hostilities of the Indians at length number of small vessels, and arrived in obliged the English colonists to solicit the April, 1745, at Canseau. Here they were joined by commodore Warren with the fleet dition, consisting of about 200 men, was from the West India station, and on the sent in 1724 against Norridgewoack, the 30th April they came in view of Louisburg, and being wholly unexpected, succeeded in easily effecting a landing. Their worst labour was in getting their cannon on shore, and for a fortnight they sustained the toil and danger of drawing it through a morass, where they were up to their knees in mud, land, gives a most interesting account of and exposed to the enemy's fire. The batteries were not completed until the end of to have been accompanied by circumstances May, and the place was so strong that the of extreme cruelty, whereas Hutchinson besiegers were five times repulsed, and might declares he was killed by the English in eventually have been compelled to raise the siege, but for the capture of the Vigilant, a line-of-battle ship containing 560 men Castine, who had previously gone to France and supplies, upon which Duchambon the governor, whose works were considerably damaged, and his garrison disposed to

The reduction of the island of St. John (now Prince Edward), soon followed, and by hoisting the French flag on the captured forts, two East Indiamen and a South Sea ship, whose cargoes were valued at and the conquest of Nova Scotia. sailed from Brest early in the summer of the French fleet. 1746, under the command of the Duke D'Anville, an officer of great ability and experience, and passed unnoticed a squadron under admiral Martin, which had been dispatched by the English to watch its

Admiral Listocq left Portsmouth in pursuit of it, but was several times driven back armament, the colonies were left to their own defences. sail homewards. D'Anville, cruelly mortiafternoon of the same day vice-admiral Distournelle, with 3 or 4 ships of the line, war, proposed returning to France, but was strenuously opposed by Monsieur de la Jonquière, governor of Canada, who maintained that their condition fully justified them in making an attempt upon Annapolis, and his opinion was maintained by the majority.

The vice-admiral was thrown, by harass and anxiety, into a fever; and becoming delirious, he imagined himself a prisoner, and ran himself through the body. La Jonquere assumed the command, and proceeded against Annapolis. In rounding Cape Sable they encountered a fearful storm, by which they were so much dispersed and weakened that they turned back and steered for Europe. The complete failure of this mighty armament was looked upon by the Providence, and celebrated by a general thanksgiving. Still the French persevered.

without delay the recovery of Cape Breton, and Warren having started in pursuit of They them, a well contested battle took place on accordingly fitted out a squadron composed the 3rd of May, 1747, which ended in a of 70 sail, of which 11 were ships of the complete victory on the part of the English, line, 20 frigates, 5 ships and bombs, and who captured a French man-of-war, 4,000 the rest tenders and transports, having on or 5,000 prisoners, and 6 richly laden board 3,150 disciplined troops. The fleet Indiamen, which were under the convoy of

By the treaty of Aix la Chapelle in 1748, peace was concluded between France and England; and the English colonists, by the articles of this peace, were compelled to surrender Cape Breton and Louisburg, which they had obtained with so much skill and bravery, the British ministry having consented to restore them to France on condiby contrary winds; and being compelled to tion of the Low Countries being yielded to abandon all hopes of overtaking the French their ally, the empress-queen of Hungary, to maintain the balance of power in Europe. The good fortune of the Meanwhile Britain had become aware of the duke, however, did not continue—his pas- importance of Nova Scotia; and the peace sage was perilous and protracted beyond having left a great many military out of example, and on reaching Chebucto (now employment, the idea was formed of settling Halifax) 4 ships of the line were so shattered the disbanded troops in this part of America. as to be obliged to return to Europe, while This project was warmly taken up by the 3 sent under admiral Conflans to the West Earl of Halifax, then President of the Board Indies, had touched at the point of rendez- of Trade and Plantations. Fifty acres were vous; but not finding the fleet, had also set apportioned to every private, with 10 additional for each member of his family; fied by these disappointments, died suddenly a higher allowance was granted to officers in on the fourth day after his arrival. In the proportion to their rank, till it amounted to 600 for all above the rank of captain. Land was also offered to civil settlers according to rejoined the squadron, and, in a council of their means, with the advantage of being conveyed with their families to the colony, maintained there one year after their arrival, supplied with arms and ammunition for their defence, and with the necessary materials for clearing their land, erecting houses, and prosecuting the fishery, all at the expense of the British government. Thus encouraged, 3,760 adventurers embarked with their families, in May, 1749, and landed at Chebucto harbour, under the command of the honourable Edward Cornwalls, who had been appointed governor, and whose energy and perseverance contributed greatly to the speedy establishment of the town of Hahfax.

The Imperial Parliament continued to support the colony by annual grants, which English colonists as a special interposition of in 1755 amounted to £415,584 (see Haliburton, p. 142).

In spite of their numerous advantages De la Jonquière, having returned to France and military habits, the English suffered with the remnant of the Duke D'Anville's greatly from the desultory warfare carried fleet, was immediately sent to Nova Scotia on against them by the Indians, who, though with 38 sail; but the English admirals Anson they at first made some friendly overtures, renew a system of avowed hostility. Disputes with the French concerning the and Virginia. The details of these arbitrary boundary line, formed another fruitful source proceedings are fully given by Judge Haliof annoyance, the French government taking advantage of an ambiguity in the wording fully and feelingly commented upon; but it of the treaties of cession, and contending that the British dominion extended only over the peninsula separated from the continent, by the Bays of Fundy and Chignecto, while the English maintained that their were condemned unheard, that their accusers limits reached from the St. Croix to the St. were also their judges, and that their sen-Lawrence, and consequently included the tence was disproportioned to their offence; fine country now called New Brunswick The French settlers under the name of neutrals proved themselves deserving of a very different appellation, and instigated by the crafty and mexcusable policy pursued by the French court, they, aided by the Indians, kept the British in constant alarm. till, in April, 1755, the war recommenced by admiral Boscawen's capturing several French deported settlers, however, returned after vessels on the coast of Newfoundland. Two months after lieutenant-colonel Monckton. at the head of a force which had been rapidly formed in New York, invested a fort named Beau Sejour, recently erected by the French on the narrow 1sthmus which connects Nova Scotia with New Brunswick, and after four days' bombardment, obliged it to surrender The following day Monckton attacked and reduced another stronghold, situated upon the river Gaspereaux, which runs into Bay Vert, and took possession of a large quantity of provisions and stores of all kinds which he found there. Meanwhile captain Rowe, with his ships, sailed to the mouth of the river St. John, but they found the French had abandoned their post after destroying, as far as they had time, all the fortifications they had lately raised. The success of this expedition was so decided as to secure the temporary cessation of hostilities, but the local government were at a loss to know what course to pursue with regard to the Acadians, as the French settlers were called, whose numbers amounted to 17,000 or 18,000, and who, there was reason to fear, would assist the French, should they attempt the invasion of the colony. The course of action the authorities at length decided upon cannot be justified even by the extremely difficult position in which they were placed. They assembled the Acadians in their the North American continent. respective settlements, under the pretence of year the township of Londonderry was making some communications relative to settled by Irish emigrants, and that of Hortheir welfare, and then, without previous ton by New Englanders. notice, forced them on board several vessels

were soon induced by their old allies, to rovided for the purpose, and dispersed hem through New England, New York, burton in his History of Nova Scotia, and s not necessary here to enter into the particulars of this painful subject. Suffice it to quote Haliburton's concluding sentence. If the Acadians had to lament that they they had also much reason to attribute their misfortunes to the intrigues of their countrymen in Canada, who seduced them from their allegiance to a government which was disposed to extend to them its protection and regard, and instigated them to a rebelhon, which it was easy to foresee would end in their ruin." Many of these expelled and the peace of 1763, and established themselves in and about the townships of Clare, Yarmouth, and Argyle, where their descendants now form a large industrious and useful part of the population.

In 1758 a constitution was granted to Nova Scotia, consisting of a House of Assembly, a Legislative Council, and a governor representing the British crown; and numerous New England immigrants settled on the vacant lands of the unfortunate Acadians. The capture of Louisburg, in Cape Breton, from the French, in 1758, gave additional security to the colony, which now began to

improve.

In 1761, the Indians for the first time entered into a formal treaty, to "bury the hatchet," and accept George III., instead of the king formerly owned by them, as their Great Father and friend. On the accession of George IV. to the crown of Great Britain, and the consequent election of a new House of Assembly, the number of representatives was increased to 24, namely 2 for each of the counties of Halifax, Lunenburg, Annapolis, and King's, 4 for Halifax township, and 2 for each of the townships of Lunenburg, Annapolis, Horton, Cornwallis, Falmouth, and Liverpool. By the treaty of Paris in 1762, France resigned all claims to any of her former possessions in this part of In this

In 1784 New Brunswick and Cape Breton

but the latter was subsequently (in 1819) cription will be given in a separate chapter.

of Nova Scotia into a bishop's see, and appointed Charles English the first bishop October, 1787, of his royal highness Prince William Henry (subsequently King William other property, of the value of £100,000 voted an address to his royal highness, despatch, urged the formation of a road events worthy of record. The colonists distinguished themselves by loyalty and inthe French revolutionary war they cheerfully England to subdue the anarchists of France

the legislature chafing against the passive the British crown in North America. the affairs of the colony.

were separated into two distinct governments, colleagues from New Brunswick and Prince Edward Island, expressed in an address to united to Nova Scotia. Its history and des- Lord Durham, dated Quebec, 22nd September, 1838, their gratification at the warm In 1787 his majesty erected the province interest which the governor-general took in the welfare of the colony which they represented, and their admiration of the en-The arrival in the colony on the 29th of lightened and comprehensive views of his The Earl of Durham, in his lordship. despatch to Lord Glenelg, of 13th Septem-IV.), gave occasion for much rejoicing. In ber, 1838, stated his belief that the deputies 1798 a dreadful storm and gale of wind at from Halifax and Prince Edward Island, Halifax, destroyed shipping, wharfs, and were all "impressed with the necessity of a general union of the provinces, as the most On the 18th May, 1799, the appointment of likely measure to preserve their connexion his royal highness the Duke of Kent as with the British crown;" and as her macommander-in-chief of the British forces jesty's high commissioner, his lordship in British North America was announced, stated in his report to the queen, that he and on the 12th September, the province knew "of but one difficulty in the way of such an union, and that arises from the diswho on the 5th February, 1801, in a public inclination which some of the lower provinces might feel to the transference of between Halifax and Quebec. From this powers from their present legislatures to period to 1839 there were no leading that of the union,"—an objection which he supposed would arise principally from the local legislatures not liking to give up the dustry, during the American war they raised immediate control which they possessed a militia for their own defence, and during over their respective colonial revenues. The proposition was supported in 1814 by the contributed their mite towards enabling late Duke of Kent-(see History of Canada, p 32),—was under the consideration of the Mr. Murdoch remarks in his Life of Lord Earl of Durham in 1838, and is now a Sydenham (p. 174), that "in Nova Scotia, as prominent topic of discussion in British in Upper Canada, the population had gra- America An association of delegates, calldually outgrown the monopoly of power in ing itself the "British-American League," the hands of a few large families, which has been holding meetings at Kingston, in seems to be the almost necessary condition Western Canada, and after sitting as a conof colonies in their infant state. There, as vention for six days, it issued, on 31st July, in Upper Canada, the popular branch of 1849, a long address to all the subjects of resistance of the executive, had addressed this address there is no discussion respectthe crown in language which, under a better ing separation from Britain; the convention, system, would probably never have been consisting of a president, six vice-presidents, heard. They had asked for the removal of two secretaries, a treasurer, and an executive their governor, and had not obscurely hinted committee of ten, direct all the attention of at the stoppage of supplies." On the arrival their "fellow-countrymen" to three points. of the Earl of Durham in Canada as her viz "a union of all the British-American majesty's high commissioner and governor- provinces," "retrenchment and economy in general in 1838, a deputation, consisting of the public expenditure;" and "a protection Mr. Johnston, solicitor-general, Mr. Uni- to home industry." It is declared in the acke, a member of the Executive Council, "address," that by a federal union of Nova Mr Young, member of the House of Assem- Scotia and the other North American colobly, and Mr. Almon, banker and merchant, nies with Canada, the foundations would were sent from Halifax to Quebec by the be laid for "making the country a great then lieutenant-governor, Sir Colin Camp- nation on a solid and enduring basis. Imbell, to confer with the Earl of Durham on pressed with the weight of such a measure, but uncertain as to the sentiments of the These deputies, in conjunction with their sister colonies, this convention has proposed a conference with those provinces by a delegation of some of its members. Meanwhile it recommends this great question to mature deliberation. The American correspondent of the London Times observes, (16th August, 1849) on this subject,—"An union of all the North American provinces has been much talked of, but as this would place the French party in a minority, it would of course, meet every opposition from them."

The topic is now under consideration in Nova Scotia. It is not within the scope of this work to express any party view of the advantages or disadvantages which might or might not result from such a contemplated union. The Earl of Durham, in his report to the queen, on 31st of January, 1839, expresses fully his opinions on the matter; and as it is one deserving of great consideration, not only by all the North American Colonies, but also by the Imperial Parliament, by her majesty's government, by merchants, and other persons having commercial, pecuniary, or personal relations with British America, I give the following interesting and comprehensive view of the question from the report of his lordship.

"While I convince myself that such desirable ends would be secured by the legislative union of the two provinces (Eastern and Western, or Upper and Lower Canada), I am inclined to go further, and in-quire whether all these objects would not more surely be attained, by extending this legislative union over all the British provinces in North America; and whether the advantages which I anticipate for two of them, might not, and should not in justice be extended over all. Such an union would at once decisively settle the question of races; it would enable all the provinces to co-operate for all common purposes, and, above all, it would form a great and powerful people, possessing the means of securing good and responsible government for itself, and which, under the protection of the British empire, might in some measure counterbalance the preponderant and increasing influence of the United States on the American continent. I do not anticipate that a colonial legislature thus strong and self-governing, would desire to abandon the connection with Great Britain On the contrary, I believe that the practical rehe from undue interference, which would be the resul of such a change, would strengthen the present bond of feelings and interests; and that the connection would only become more durable and advantageous, by having more of equality, of freedom, and of local independence. But at any rate, our first duty is to secure the well-being of our colonial countrymen; and if in the hidden decrees of that wisdom by which this world is ruled, it is written, that these countries are not for ever to remain portions of the empire, we owe it to our honour to take good care, that, when they separate from us, they should not be the only countries on the American continent in which the Anglo-Saxon race shall be found unfit to govern itself

"I am in truth, so far from believing that the increased power and weight that would be given to these colonies by union would endanger their connection with the empire, that I look to it as the only means of fostering such a national feeling throughout them s would effectually counterbalance whatever tendencies may now exist towards separation. No large ommunity of free and intelligent men will long feel contented with a political system which places them, because it places their country in a position of inferiority to their neighbours. The colonist of Great Britain is linked, it is true, to a mighty empire; and the glories of its history, the visible signs of its pre-sent power, and the civilization of its people, are calculated to raise and gratify his national pride. But he feels, also, that his link to that empire is one of remote dependence; he catches but passing and inadequate glimpses of its power and prosperity; he knows that in its government he and his own countrymen have no voice While his neighbour on the other side of the frontier assumes importance from the notion that his vote exercises some influence on the councils, and that he himself has some share in the onward progress of a mighty nation, the colonist feels the deadening influence of the narrow and subordinate community to which he belongs. In his own and in the surrounding colonies, he finds petty objects occupying petty, stationary, and divided societies; and it is only when the chances of an uncertain and tardy communication bring intelligence of what has passed a month before on the other side of the Atlantic that he is reminded of the empire with which he is connected But the influence of the United States surrounds him on every side, and is for ever present It extends itself as population augments and intercourse increases, it penetrates every portion of the continent into which the restless spirit of American speculation impels the settler or the trader, it is felt in all the transactions of commerce, from the important operations of the monetary system down to the minor details of ordinary traffic; it stamps, on all the habits and opinions of the surrounding countries, the common characteristics of the thoughts, feelings, and customs of the American people. Such is necessarily the influence which a great nation exercises on the small communities which surround it. Its thoughts and manners subjugate them, even when nominally independent of its authority. If we wish to prevent the extension of this influence, it can only be done by raising up for the North American colonist some nationality of his own; by elevating these small and unimportant communities into a society having some objects of a national importance; and by thus giving their inhabitants a country which they will be unwilling to see absorbed even into one more powerful

"While I believe that the establishment of a comprehensive system of government, and of an effectual union between the different provinces, would produce this important effect on the general feelings of their inhabitants, I am inclined to attach very great importance to the influence which it would have in giving greater scope and satisfaction to the legitimate ambition of the most active and prominent persons to be found in them. As long as personal ambition is inherent in human nature, and as long as the morality of every free and civilized community encourages its aspirations, it is one great business of a wise government to provide for its legitimate development. If, as it is commonly asserted, the

been fomented by the influence of designing and ambitious individuals, this evil will best be remedied by allowing such a scope for the desires of such men as shall direct their ambition into the legitimate chance of furthering, and not of thwarting, their government. By creating high prizes in a general and responsible government, we shall immediately afford the means of pacifying the turbulent ambitions, and of employing in worthy and noble occupations the talents which now are only exerted to foment disorder. We must remove from these Colonies the cause to which the sagacity of Adam Smith traced the alienation of the provinces which now form the United States · we must provide some scope for what he calls 'the importance' of the leading men in the colony, beyond what he forcibly terms the present 'petty prizes of the paltry raffle of colonial faction.' A general legislative union would elevate and gratify the hopes of able and aspiring men. They would no longer look with envy and wonder at the great arena of the bordering federation, but see the means of satisfying every legitimate ambition in the high offices of the judicature and executive government of their own union

"Nor would an union of the various provinces be less advantageous in facilitating a co-operation for various common purposes, of which the want is now very seriously felt. There is hardly a department of the business of government which does not require, or would not be better performed, by being carried on under the superintendence of a general government and when we consider the political and commercial interests that are common to these provinces, it appears difficult to account for their having ever been divided into separate governments, since they have all been portions of the same empire, subject to the same crown, governed by nearly the same laws and constitutional customs, inhabited, with one exception, by the same race, contiguous and immediately adjacent to each other, and bounded along their whole frontier by the territories of the same powerful and rival state. It would appear that every motive that has induced the union of various provinces into a single state, exists for the consolidation of these colonies under a common legislature and executive. They have the same common relation to the mother country, the same relation to foreign nations. When one is at war, the others are at war; and the hostilities that are caused by an attack on one, must seriously compromise the welfare of the rest. the dispute between Great Britain and the State of Maine, appears immediately to involve the interests of none of these colonies, except New Brunswick or Lower Canada, to one of which the territory claimed by us must belong. But if a war were to commence on this ground, it is most probable that the American government would select Upper Canada as the most vulnerable, or, at any rate, as the easiest point of attack. A dispute respecting the fisheries of Nova Scotia would involve precisely the same consequences An union for common defence against foreign enemies is the natural bond of connection that holds together the great communities of the world; and between no parts of any kingdom or state is the necessity for such an union more obvious than between the whole of these colonies.

"Their internal relations furnish quite as strong motives for union. The Post-office is at the present moment under the management of the same imperial establishment. If, in compliance with the reasonable demands of the Colonies, the regulation of a matter

so entirely of internal concern, and the revenue derived from it, were placed under the control of the provincial legislatures, it would still be advisable that the management of the Post-office throughout the whole of British North America should be conducted by one general establishment. In the same way, so great is the influence on the other provinces of the arrangements adopted with respect to the disposal of public lands and colonization in any one, that it is absolutely essential that this department of government should be conducted on one system, and by one authority. The necessity of common fiscal regulations is strongly felt by all the colonies; and a common custom-house establishment would relieve them from the hindrances to their trade, caused by the duties now levied on all commercial intercourse between them. The monetary and banking system of all is subject to the same influences, and ought to be regulated by the same laws The establishment of a common colonial currency is very generally desired. Indeed, I know of no department of government that would not greatly gain, both in economy and efficiency, by being placed under a common management I should not propose, at first, to alter the existing public establishments of the different provinces, because the necessary changes had better be left to be made by the united government; and the judicial establishments should certainly not be disturbed until the future legislature shall provide for their reconstruction on an uniform and permanent footing But even in the administration of justice, an union would immediately supply a remedy for one of the most serious wants under which all the provinces labour, by facilitating the formation of a general appellate tribunal for all the North American colonies

"But the interests which are already in common between all these provinces are small in comparison with those which the consequences of such an union might, and I think I may say assuredly would, call into existence, and the great discoveries of modern art, which have, throughout the world, and nowhere more than in America, entirely altered the character and the channels of communicatin between distant countries, will bring all the North American colonies into constant and speedy intercourse with each other. The success of the great experiment of steam navigation across the Atlantic, opens a prospect of a speedy communication with Europe, which will materially affect the future state of all these provinces. In a despatch which arrived in Canada after my departure, the Secretary of State informed me of the determination of your Majesty's government to establish a steam communication between Great Britain and Halifax; and instructed me to turn my attention to the formation of a road between that port and Quebec. It would, indeed, have given me sincere satisfaction, had I remained in the province, to promote, by any means in my power, so highly desirable an object; and the removal of the usual restrictions on my authority as governor-general, having given me the means of effectually acting in concert with the various provincial governments, I might have been able to make some progress in the work. But I cannot point out more strikingly the evils of the present want of a general government for these provinces, than by adverting to the difficulty which would practically occur, under the previous and present arrangements of both executive and legislative authorities in the various provinces, in attempting to carry such a plan into effect. For the various colonies have no more means of concerting such common works with each other, than with the neighbouring states of the union. They stand to one another in the position of foreign states, and of foreign states without diplomatic rela-The governors may correspond with each other the legislatures may enact laws, carrying the common purposes into effect in their respective jurisdictions; but there is no means by which the various details may speedly and satisfactorily be settled with the concurrence of the different parties. And, in this instance, it must be recollected that the communication and the final settlement would have to be made between, not two, but several of the provinces road would run through three of them; and Upper Canada, into which it would not enter, would, in fact, be more interested in the completion of such a work than any even of the provinces through which it would pass. The colonies, indeed, have no common centre in which the arrangement could be made, except in the Colonial Office at home; and the details of such a plan would have to be discussed just where the interests of all parties would have the least means of being fairly and fully represented, and where the minute local knowledge necessary for such a matter would be least likely to be found

"The completion of any satisfactory communica-tion between Halifax and Quebec, would, in fact, produce relations between these provinces, that would render a general union absolutely necessary

"With respect to the two small colonies of Prince Edward's Island and Newfoundland, I am of opinion, that not only would most of the reasons which I have given for an union of the others, apply to them, but that their smallness makes it absolutely necessary, as the only means of securing any proper attention to their interests, and investing them with that consideration, the deficiency of which they have so much reason to lament in all the disputes which yearly occur between them and the citizens of the United States, with regard to the encroachments made by the latter on their coasts and fisheries "

When her majesty's government sent Mr. P. Thomson, in 1840, to effect an union between the two Canadas, he was instructed to ascertain the state of affairs in Nova Scotia, and a full discretion was left to him as governor-general, respecting any mea-The circular sures he might recommend. letter of Lord John Russell, of 16th October, 1839 (see History of Canada, p. 38) relating to the tenure of offices during the pleasure of the crown, was communicated by the heutenant-governor, sir Colin Campbell to the Nova Scotia House of Assembly, and eagerly hailed as a recognition of their claims for responsible government, and as imposing henceforth on the heutenant-governor the obligation of dismissing or remodelling his council whenever it ceased to enjoy the con fidence of the representatives of the people The House of Assembly, therefore, on 5th February, 1840, by a majority of 30 to 12 passed a series of resolutions, and forwarded them to the heutenant-governor, who declined to adopt a policy which he considered

would be a fundamental change in the colomal constitution. The following is a copy of the address of the House of Assembly:-

"To his Excellency Lieutenant-General Sir Colin Campbell, Lieutenant-Governor and Commander-in-Chief in and over Her Majesty's province of Nova Scotia and its dependencies, &c. &c &c. The humble Address of the House of Representa-

tives in General Assembly.

" May it please your Excellency, "We, Her Majesty's dutiful and loyal subjects, the representatives of Her Majesty's loyal people of Nova Scotia, having, under a solemn sense of duty, passed the annexed resolutions, beg leave to recommend them to your Excellency's favourable consideration.

In the House of Assembly, 5th February, 1840. 'Mr Clements, the Chairman of the Committee of the whole house on the general state of the province,

reported the following resolutions — Rosolved,—1. That it is the opinion of this Committee that for many years the best interests of this province have been jeopardized, and its progress retarded, by the want of harmony between the different branches of the Government, and the absence of that cordial co-operation between the representatives of the people and those who conducted the local administration, which, in the view of this Committee, s highly desirable, if not indispensable, in every British colony to which a constitution modelled after that of the mother country has been granted by the

Resolved,-2 That it is the opinion of this Committee that in the course of the struggle which since 1837 the House of Assembly has maintained, with a view to reduce the expenses, improve the institutions, and purify the administration of the country, it has been met at every step by an influence which, while it was beyond the control of the Assembly, has wielded the whole power and patronage of the government to baffle its efforts, and thwart the wise and benevolent policy avowed by Her Majesty's ministers.

" Resolved .- 3 That it is the opinion of this Committee that in approaching many of the important questions to be disposed of in the present session, the House of Assembly feels embarrassment and difficulty which it would be unwise to conceal either from the Government or the country at large; and that it can anticipate no satisfactory settlement of those questions until the Executive Council is so remodelled as to secure to the House of Assembly the aid of the local Administration in carrying out the views of the Assembly, and in facilitating any negotiation which it may be necessary to conduct with Her Majesty's Government

"Resolved, therefore, 4 That it is the opinion of the Committee that the House of Assembly, after mature and calm deliberation, weary of seeing the revenues of the country and the time of its representatives wasted, the people of Nova Scotia misrepresented to the Sovereign, and the gracious boons of the Sovereign marred in the transmission to the people, do now solemnly declare that the Executive Council, as at present constituted, does not enjoy the confidence

of the Commons."

On the 9th of July, 1840, the governorgeneral arrived from Quebec at Halifax, and in obedience to the commands of the queen, temporarily assumed the government of the colony; of which the heutenant-gov- pointed to succeed Sir C. Campbell; since

Campbell.

On the 27th of July, the governor-general recommended to Lord John Russell, then her majesty's Secretary of State for the Colonies certain changes in the Legislative and Executive Councils of the province; he considered that the Executive Council was composed in a way which, whilst it created dissatisfaction, afforded the government no assistance or strength whatsoever; that the queen did not derive from her officers that aid in the management of pubabsolutely indispensable for them in the management of a colony, and that as a necessary result the government did not and could not perform one of its first duties, namely, to propose and submit to the colonial legislature, with the full weight of its authority, whatever measures might appear requisite for the good government of the province, the very consideration of which would divert the minds of active and ambitious men from the agitation of abstract points of government. The principle recommended by the governor-general, was that the Executive Council should comprise only the leading official servants of the government, and a few of the most influential members of the Legislative Council, and of the House of Assembly, but especially of the latter. Next, that the law officers of the crown, and any other public servants whose services it might be desirable to obtain, should be required, when necessary, to become members of the House of Assembly, as well as of the Executive Council, in order to afford their assistance there, and that their whole undivided time and talents should be at the disposal of government. In the Legislative Council it was proposed to make additions from the popular party in order to remove the imputation of an exclusive character; and by such modifications it was hoped to bring the Executive and Legislative Councils into more harmony with the general opinions of the House of Assembly, or popular branch of the legislature. By direction of Lord John Russell these reforms were carried into effect, under the administration of Lord Falkland, who had been ap-

ernorship was in the hands of Sır Colin that time the province has been free from internal dissension, and although such changes were opposed by some, they have undoubtedly been satisfactory to the great majority of the colonists, and by a prompt compliance with reasonable requests, disturbances which no subsequent concessions would have been sufficient to allay, have been avoided. Viscount Falkland received great credit for the judicious manner in which he effected the important change in the colonial government. Lord Sydenham (Mr. P. Thompson), in a letter dated Monlic affairs in the legislature, which was treal, 12th of May, 1841, to Lord Falkland (who is now governor of Bombay), says,— "I have watched your proceedings with great anxiety, and am much gratified at the result. I think it in the highest degree creditable to your tact and judgment. I enter completely into the difficulties of which you speak, in carrying out improvements notwithstanding your governmental majority, as they term that sort of thing in France. It is the misfortune of all popular governments in our colonies, the people are made legislators before they have either intelligence or education to know how to set about their work; and, as under such circumstances, selfishness and preference of their little local jobs, to any views of general advantage, must prevail amongst them, the progress of practical improvement cannot but be slow. But do not despair, you have certainly no grounds whatever to do so, for you have achieved a vast deal even in this your first session." The further history of the province does not present any facts worthy of detail. The following is a list of the English governors:—

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1760 J Belcher
1764 M Wilmot
1766 M Franklin
    Lord W Campbell.
1772 M Franklin
     Lord W Campbell.
1773 F Legge
    M Franklin
1776 M Arbuthnott.
1778 R Hughes
1781 Sir A S Hammond
    J Parr
1782
     Sir A S Hammond
1783 E Fanning
1791 R Bulkely
1792 J Wentworth
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1749 Hon E Cornwalls. 1752 P Hopson 1754 C Lawrence

1756 R. Moneton

1808 Sir G Prevost. A. Croke. 1809 Sir G Prevost 1811 Sir J Sherbrooke 1811 Gen Darrock 1814 Sır J Sherbrooke 1816 Gen Smyth 1816 Earl of Dalhousie. 1818 M Wallace 1819 Lord Dalhousie 1820 Sir J Kempt 1824 M Wallace 1825. Sir J. Kempt M Wallace Sir J Kempt. 1828 M Wallace — Sir P Maitland. 1834. Sir C Campbell 1840. Lord Falkland 1846. Sir John Harvey

CHAPTER II.

AREA, PHYSICAL ASPECT, HIGHLANDS, LAKES, RIVERS, HARBOURS, GEOLOGY, MINERALOGY, SOIL, CLIMATE, DISEASES, AND MORTALITY.

Nova Scotia has a smaller area than any of the British North American provinces, except Prince Edward's Island, but its importance as a naval station, its geographical and peninsular position, numerous harbours, extensive coal-fields, and lucrative fisheries, confer on the colony a value far superior to that to which it is entitled by its mere territorial extent, which is about 15.517 square miles.

Above 3,000 square miles are stated to be occupied by lakes and rivers of various shapes and sizes, so distributed that there is no point in the province 30 miles from The number of small navigable water. lakes is very great, especially on the southern side of the peninsula; nearly a hundred are to be found between Halifax and St. Margaret's Bay, scattered over a tract of country not exceeding 20 miles in length or breadth. The face of the country is pleasingly diversified with hill and dale, but the elevations are of inconsiderable height; the highland ranges seldom exceed 500 feet above the level of the sea, and run through the country province are, the Shubenacadie before mengenerally from E. to W. Bouchette states, that the highest hills do not exceed 600 its rise in Grand Lake, in the county of feet; but Major Robinson, who surveyed a Halifax, and after a rapid and circuitous large portion of the province in the year 1848, states, that the Cobequid Hills, which extend along the N. shore of the Bay of in Cobequid Bay. This fine stream is navi-Mines, and very nearly across to the shore at the Straits of Northumberland, average interior, its banks are adorned with extenin height from 800 to 1,000 feet, the lowest point being found at Folly Lake, 600 feet inexhaustible stores of gypsum and lime; the above the sea. In breadth the range preserves a nearly uniform width of about 10 miles. A belt of broken land, whose height verdant and cultivated vale, the wilderness averages about 500 feet, and whose breadth varies from 20 to 60 miles, runs along the shores washed by the Atlantic from Cape Canso to Cape Sable, occasionally forming feet. bold cliffs on the coast, the most remarkable of which is Aspotagoen, between Mahone and Margaret's Bay. Another ridge extends on the W. coast, between Argyle and St Mary's Bay; and, as before observed, a more lofty and extensive range skirts the Bay of It is navigable for large vessels for 20 miles Fundy, from Annapolis to Mines Basin.

Lakes.—Of the numerous lakes the largest is Lake Rosignol, which is said to be 30 miles in length, and is situate partly in each of the three counties of Queen's, Shelburn, It is the source of the and Annapolis. Liverpool River—the Mersey, and in the same section of country there are several other lakes, approaching within a short distance of the Mersey, and communicating with the head of Allan's River, running into Annapolis Bay. Lake George, another lake of considerable size, and 70 or 80 small ones, are situate in the township of Yarmouth. A chain of lakes stretches from the head of the river Shubenacadie nearly to the harbour of Halifax, and, with the Shubenacadie Canal, completes the water communication quite across the province Similar chains of lakes exist between Windsor and St. Margaret's Bay, between the head of the Avon and Chester, and between the river Gaspereaux in King's County, and Gold River, in the county of Lunenburg.

Rivers.—The two principal rivers in the tioned, and the Annapolis: the former takes course, the length of which has not yet been accurately ascertained, it disembogues gable for large vessels some distance into the sive groves of lofty timber, and contain scenery is picturesque;—varied by the abrupt frowning cliff with its woody summit, the with its deep solitudes, and the busy hum of civilized society. The rise and fall of the tide at the mouth of this river is about 50

The Annapolis takes its rise in the township of Cornwallis, in King's County, and after a long and serpentine route falls into Annapolis Bay; having previously reiceved the waters of the Moose and Bear Rivers. above Annapolis, and 40 above Digby, and Avon receives the waters of the St Croix, itself into the Bay of Mines; it is navigable

and 30 at spring tides.

mands the entrance of both rivers.

the province. 1½ in breadth. banks, produce a pleasing effect.

for large boats to a much greater distance. any other country of similar extent. Among At Pictou the East, West, and Middle the most remarkable on the northern shores Rivers, all three navigable for large vessels, may be mentioned, Pictou Harbour, which empty themselves into the harbour. The is as famous for its beauty as for its extent: Wallace Bay, navigable for vessels of the Kennetcook, and several others, and empties largest size, more than 6 miles; Pugwash Bay, in which ships of the first class can for a considerable distance: at Windsor the anchor within 20 yards of the shore; and rise and fall of the Avon is 20 feet at neap, St. George's Bay. On the S. and S. E. the noble harbour of Halifax stands pre-eminent. The country along the banks of the Avon It is situated nearly midway between the is extremely beautiful, the luxuriance of the eastern and western extremities of the penmeadows; the frequent changes of scenery; insula, and its favourable position, easy the chain of high hills on the S. and W., entrance, accessibility at all seasons (its clothed with variegated foliage, and the navigation being very rarely impeded by white sails of vessels passing rapidly through ice, as that of Quebec is annually), and the serpentine windings of the Avon and capacity of affording safe anchorage for a St. Croix, are some of the leading features thousand ships, have rendered it our chief of the landscape. A bridge has been com- naval station in North America. Shelburne menced to span the Avon at Windsor, where Harbour is exceedingly capacious, and perthe extreme breadth is 1,050 feet. There fectly secure. Margaret's Bay is 12 miles is a small military post on elevated land at in depth, and from 2 miles at its entrance Windsor, called Fort Edward, in honour of to 6 in width; Mahone Bay, in Lunenburg his Royal Highness the late Duke of Kent County, is equally secure and extensive. The fort is advantageously placed, and com- Liverpool Harbour affords good anchorage; County Harbour is navigable for the largest The La Have, Mersey, and Medway; the ships for 10 miles from its entrance; Canso Shelburne (which forms the fine harbour of forms an excellent harbour, and Chedabucto that name), the Clyde, which is considered Bay, 25 miles in length and 15 in breadth, one of the most beautiful rivers in Nova is navigable throughout for the largest Scotia; the Tusket, with its numerous ships, and in its several smaller harbours branches; the St Mary, which crossing affords safe anchorage. Between Halifax nearly the whole county of Sydney from N. and Cape Canso are 12 ports, capable of to S, forms the harbour of St. Mary; the receiving ships of the line, and there are 14 Maccan, Nappan, and Gaspereaux; the Mus- others of sufficient depth for merchantmen. quedoboit, Sale, and Jordan; these are but The principal harbours on the northern a few selected from the multitude of rivers, shores in the Bay of Fundy are St Mary's many of which nearly equal them in mag- Bay, the beautiful Basin of Annapolis, which nitude, whose streams fertilize and adorn is described by Sir John Harvey as a noble It is a singular fact, that estuary sheltered by mountain ranges, openwhile the tide rises with extraordinary ra- ing to the Bay of Fundy through a narrow pidity to the height of 75 feet in the Bay of gorge, navigable by large vessels, and acces-Mines and Chignecto, it does not rise more sible at all seasons of the year. Although than 6 feet in Pictou Harbour on the south this part of the country is comparatively but The Gut of Canso, which separates recently settled, the shores of this basin, Nova Scotia from the Island of Cape Breton, for an extent of 30 miles, are highly cultiis 21 miles in length, and varies from 1 to vated, and present many traits of natural The land rises boldly on beauty and advanced civilization, of which either side, and the strait being the most the people are justly proud. Mines Basin, convenient passage to and from the Gulf of a continuation of the Bay of Fundy, whose St. Lawrence, is crowded during the sum-tides of 60 feet in height rush through the mer and autumn with vessels of every strait between Cape Blomedon and Parrsdescription, which, together with the cot- borough, and then expand over a broad tages of the little villages, situate on its basin, which washes the shores of four of the most fertile of the inland counties, re-Harbours.—In number, capacity, and se-ceives into its bosom 19 rivers, and having curity, the harbours of Nova Scotia are a powerful ebb and flow, affords singular unsurpassed, if not unequalled, by those of facilities for navigation. Chignecto Channel

and Cumberland Basin likewise form har-

bours of less importance.

The governor of Nova Scotia, in his report to Earl Grey in 1848, rightly remarks, that these harbours were obviously never intended by Providence solely for the use of the inhabitants of Nova Scotia, who are already becoming to a large extent the carriers to Canada of tropical and foreign productions, and it is confidently anticipated that these fine havens will become entrepôts for the extensive adjacent inland regions.

Geology.—Nova Scotia is marked by four geological divisions, which reach nearly across from SW. to N.E, and run in a longitudinal direction with the greatest diameter of the country. The S. side of Nova Scotia, bordering on the Atlantic, and forming a narrow strip from Cape Sable to Cape Canso, is composed principally of granite, gness, and mica slate The second division. which is three to four times the breadth of the first, and extends from Cape St Mary to Chedabucto Bay, is composed of slate, greywacke, and greywacke slate. The third is a trap district, and forms a narrow slip from Briar Island to Mines Basin, including the whole of the North Mountains, and the islands, &c, on the Nova Scotia shore of the Bay of Fundy. The fourth is a red sandstone district, and extends from the Gut of Coal group - Secondary rocks Canso, along the Northumberland Straits The different formations in Nova Scotia correspond with those of the United States In both countries they extend from NE to S.W., nearly parallel to the Atlantic coast, having the transition and secondary rocks placed to the northward and westward of the primary formations. The geological divisions of Nova Scotia, as above laid down by Dr. Gesner in his valuable work, are subject to various irregularities and deviations, but a section of the strata, extending from Halifax across the province to Cumberland Basin, would expose a greater variety of rocks and minerals placed in regular order than has yet been discovered in any country of similar magnitude. The fossil remains found in the mountain-limestone, transitionslate, &c., are extremely curious. The palm tree, the bamboo, and the cactus, have been dug from the rocks and coal-seams, indicating that Nova Scotia at one time enjoyed a tropical climate.

The order of succession of the different strata of rocks in Nova Scotia is thus given by G. R. Young :-

Nature of Rocks and Soils

Where found

Allumal

A vegetable soil Gravel, sand, and clay, con-taining the bones of animals

now existing

Diluvial

Beds of gravel and rounded pebbles, containing bones of animals now existing (diluv detritus)

Tertiary

Thin beds of limestone and marl, containing ammonites and other shells

Beds of clay, limestone, and marl, containing the remains of land and marine plants and animals.

Oolitic

Brown sand Slaty limestone, with shells. Marly clay Limestone with shells.

Hard clay Compact himestone and Oolite.

Trap Trap rocks

Greenstone, amygdaloid, and toadstone, containing gems and neolites

Sandstone, new red

Sandstone of a bright red colour, containing beds of gypsum, and sometimes rock

Limestone, containing mag-nesia Coal measures, consisting of sandstone, coal, shale, iron-stones and limestone, in alternations often repeated, containing the remains of several classes of tropical plants, marine, and fluviatile shells

Millstone grit

O red old M sandst limest Beds of limestone, slate, clay, and sand-tone Dark red sandstone, with beds

of pebbles Primary transition

Slate, greywacke slate, and quartz rock, sometimes alternating with transition limestone, containing marine organic remains

Mica slate

Granite of several varieties

Everywhere Valley of Annapolis and King's

The surface of the red sandstone district generally

Gay's river, and some parts of Cumberland

Rawdon, Douglas, and some parts of Colchester

Shubenacadie river Windsor

Economy On-low, Pictou, Cumber-land, Pari-borough Londonderry, Windsor Nepean

The North Mountains, capes, and islands near Parisborough

Windsor, Rawdon, Douglas, Pictou, Cumberland

Shubenacadie, Cumberland

Pomket, Pictou, Onslow Cumberland

Pictou, Cumberland.

Onslow, Pictou, Horton

Horton, Falmouth, Pic-

Chedabucto Bay, Halifax, Windsor Road, Lunenburgh, Yarmouth, forming a belt running lengthwise the province, and occupying a large tract of country.

Cape Canso, Halifax, Margaret's Bay, Lunen-burgh, Shelburne, forming the south coast of the province.

Grey granite prevails along the shore; trap-rocks, sometimes interstratified with clay-slate, protrude in various places in immense parallel ridges above the surface,

heaped confusedly together, traversed frequently by veins of quartz. Near Liverpool, says Dr. Gesner, the whole face of the country is covered with white granite masses; some of large and regular dimensions, resembling, at a distance, huts and other rude buildings; in some places the resemblance is so perfect, that they might be mistaken for a deserted village Within four miles of Halıfax is a granıte rock, seventy-five feet ın circumference, weighing upwards of one hundred and fifty tons, poised so evenly on a flinty base of twelve inches, that the strength of one hand suffices to put it in motion. Several extensive and beautiful grottos are to be found in different parts of the coast, one at Pictou is 100 feet long and 6 feet wide, with beautiful stalactites suspended from the roof, and a cavern at the Bay of Fundy, with a narrow entrance towards the sea, contains magnificent halls, apparently adorned with brilliant gems. In the old red sandstone near the town of Lunenburg, cavities, called "ovens," have been made by the sea, into these the waves rush with great violence, and the air being confined bursts out, carrying the spray before it with a noise and appearance like the spouting of an enormous whale. These "ovens" are supposed by some Americans to be the nests of the "sea-serpents" seen near Boston. Clay-slate is found in the eastern section of the colony; it is generally stone at Halifax. Greywacke, and greywacke-slate, in which are found beds of limestone and numerous species of specular iron ore, extend along both shores of Chedabucto Bay. The grindstones so much esteemed in the United States, and known as "Nova Scotia blue grits," are obtained from a stratum of sandstone, which is found between the coal and limestone; they afford a valuable branch of trade to the colony. Connected with carboniferous limestone are the valuable coal-fields of Nova Scotia, which, together with those of Cape Breton (now working), afford sufficient of this important mineral to supply the whole continent of America.

Major Robinson, of the Royal Engineers, in his able report, dated Halıfax, 31st August, 1848, on the proposed line of railway from Halifax, through New Brunswick to Quebec, says that indications of coal are met with in abundance from the banks of Gay's

and frequently in piles of loose masses the Restigouche River, and along the shores of the Bay of Chaleurs. The greatest and most valuable coal-field is that on the S. side of the harbour of Pictou, in Nova Scotia. The coal-field is stated to be about 100 square miles in extent—the seam varying in thickness from one to thirty-six feet. The coal is bituminous, and of good quality. Mines of it are extensively worked, and large exports from them are made to the United The Cumberland coal district is inferior in importance only to that of Pictou: it is supposed to extend from the Macon River, W. of Amherst, over to Tatmagouche, in the Straits of Northumberland. Some mines of it have been recently opened, and promise to be very productive.

Varieties of iron, copper, and lead ores have been met with; marble, alabaster, and porphyry abound, and the vast internal wealth of this portion of the British dominions will probably render it at no distant day the great mining district of the "New

World."

Soil.—The arable surface is of various quality; there are extensive alluvial tracts producing as rich crops as any land in England; some of the uplands are sandy and poor, and on the S. coast it is so rocky as to be extremely difficult of cultivation, but when the stones are removed excellent crops are obtained. The heads of rivers and the bends of bays on the N. coast afford many fertile tracts. The granite disappears altoof a very fine quality, and used as building gether, except at one or two places, at an average distance of 20 miles from the sea; slate forming the basis of the upland in the immediate rear, particularly in the centre of the province. Beyond this is the region of fertility—the soil being excellent, and stone (except quarries of grindstone and freestone in the counties of Pictou and Cumberland), rarely to be seen. There are three descriptions of land known in the husbandry of the province-upland, intervale, and marsh.

The upland, in the counties of Inverness, Sydney, Pictou, Colchester, Cumberland, Hants, King's, Annapolis, and Digby, 18 generally fertile and free from stones. Sir

John Harvey says:-

"Along the banks of many rivers, draining these extensive tracts, are found the intervales, being narrow strips of light alluvial soil, above the head of the tide, and skirting the streams, until near their headwaters the mountains close in and make the descent too rapid to admit of deposits being formed. These intervales are not more fertile than good upland, but are generally preferred: some of them, overflowed by River (twenty miles from Halifax) up to the freshets, which bring down rich particles of soil

from higher elevations, will produce hay without manure; others, secure from flowage, and requiring no expense to dyke them from the sea, make excellent tillage land, easily worked, from their presenting level surfaces and a light yet fertile soil. Such of these intervales as are cultivated bear grain and green crops well, perhaps with less manure than up-land usually requires, but they do not retain it so tenaciously, and, besides, are earlier struck with frost

"The dyked marshes of Nova Scotia, formed along the banks of all the rivers flowing into the Bay of Fundy and Basin of Mines, are the real wealth of the province, and redeem her from the lower level, which, but for them, she must have occupied as an agricultural country I have said that the tides of the Bay of Fundy rise and fall about 60 feet The tide-wave, pressed on by the mass of waters in the rear, rushes with resistless velocity up the beds of the streams, meeting and controlling the waters descending towards the basin, and overflowing with a rich deposit the flat lands, which extend on either side. The receding tide leaves these covered with rich mud, successive layers of which, deposited in the lapse of years, and gradually overgrown with wild grasses (which, as they rise, intercept and bind together fresh particles of soil), form the marsh lands of Nova Scotia, which have been cropped without manure for 150 years The cost of protecting these lands is not very heavy compared with their intrinsic value, which is hardly yet sufficiently estimated by those who own them; but their comparative worth may be judged by the fact, that, while the best upland in Nova Scotia, in favourable situations, except on the peninsula of Halifax, rarely sells higher than £10 an acre, from £20 to £50 is perhaps the average price of dyke, while woodland or pasturage, on the hill sides, but a few miles in the rear, will scarcely command £1."

There is an extensive disintegration of rocks in Nova Scotia, and the decomposition of granite, which is composed of quartz, feldspar, and mica, produces a soil, which, although scanty, is good and produc-Granite, especially the soft or porcelain description, when presenting a naked surface to the atmosphere, speedily decays, Sir Humphry Davy has shewn that the feldspar which constitutes one of its ingredients, yields lime and potash; the mica, lime and magnesia; these imbibe from the atmosphere carbonic acid; the oxyde of iron, which constitutes one of the ingredients of granite, tends to unite with more oxygen, and the moisture supplied by rain serves to break the cohesion of the structure and prepare for rapid disunion. Feldspar, which is the cement of granite, first yields and forms clay: mica next gives way and forms sand, and quartz, which takes the longest time in decomposing and is a pure siliceous earth, The old red sandstone in forms gravel. different parts of Nova Scotia, has contributed much to the production of soil by its hungry soil, and has but a scanty covering ticularly in May and June, but they seldom

of vegetation, unless improved by artificial means. In Nova Scotia the upland consists partly of siliceous or sandy soils, called "barrens;" partly of some pretty large tracts of clay, diversified both as to texture and colour, but chiefly of loam-the best and most valuable of all uplands, because compounded of original earths, by whose union the purposes of vegetation are most effectually promoted. These loams are distributed in rich profusion all over the province, and yield abundantly whatever kind of corn is sown upon them.

Of clay upland there is a great variety, and it is met with on the different rivers that empty themselves into Pictou harbour, in the neighbourhood of the Shubenacadie, and largely between Liverpool and Shelburne. The term "intervale" in Nova Scotia is applied to fertile levels along the banks of rivers, formed by the gradual deposition of their waters during successive ages. intervales are composed therefore of successive coats of fine particles of clay, sand, and lime, which the water had held in suspension, and which had been washed from the higher lands by rains or melting snows. They are of alluvial origin, and all the primitive earths enter into their composition; one turbid torrent brings clay, another sand, a third passing a limestone district contributes a valuable calcareous Where any of these ingredients preearth. dominate, the intervale is not so fertile; it is their equable mixture which gives the soil its great fertility. In the N. W. districts the best land is found: towards the Bay of Fundy the soil is rich and free from stones A great extent of dyke, or marsh land, has been drained, and some of it has yielded for more than half a century an annual produce of three tons of hay per acre. There are 70,000 acres in one body of this dyked land at the head of the Bay of Fundy.

The agricultural operations of the province, thanks to the excellent "Letters of Agricola" (J. Young, Esq.), are conducted with much skill and success.

Climate and Diseases -The climate of Nova Scotia, like other parts of the North American continent, is remarkable for great and sudden alternations of temperature; the thermometer has been known to exhibit a difference of 52° in 24 hours. The atmosphere is exceedingly moist; the showers heavier and more frequent than in Britain; easy decomposition; but it is a poor and fogs are common along the sea coast, parextend any distance into the interior. Although the winter is much more severe than that of Great Britain, yet the cold is not by several degrees so intense, nor the heat of summer so great as in that part of the American continent further to the westward. The thermometer is seldom lower than 6° or 8° below zero in winter, or above 88° in summer.

As the country is cleared, the chimate becomes milder; the following Meteorological Register is for Halifax:—

		The		Weather.	Wind.
	Max	Med	Mın		
February March April May June July August September October November	52 54 60 68 80 90 79 68 59	18 25 30 40 50 63 70 51 51 38	10 8 20 30 40 55 48 30 18		N and ditto W and Northerly W N and S

From December to the end of March the ground is generally covered with snow. There is scarcely any spring, but the autumn is pleasant, and of long duration. The prevailing winds are from the E. in spring, and from the S. or SW. in summer and autumn, and from the N. or N.W. in winter, at which period a change to any other quarter is generally followed by a rapid rise in the thermometer, accompanied by much rain or snow. The statistical reports on the sickness, mortality, and invaliding among the troops of the British army, prepared from the records of the Army Medical Department and War Office returns, states, that although nearly one-third of the surface of the peninsula is under water, yet the inhabitants "enjoy a remarkable degree of health, and an almost total exemption from those intermittent and remittent fevers which affect the constitution in Canada." The air, indeed, is highly salubrious; 80 years of life being frequently attained in the full use of mental and bodily faculties. The climate of Cape Breton is much the same as that of Nova Scotia, but even more healthy; no epidemic disease, except smallpox, has been known for many years in the island, and both among the inhabitants and the troops sickness and mortality are ex-

Prince Edward the winter is more severe than at Cape Breton or Nova Scotia; the thermometer frequently falls to 20 or 25° below zero, and the rivers and bays remain frozen to the end of April. At Fredericton. in New Brunswick, the climate is not liable during winter to such sudden vicissitudes as that of Nova Scotia; the frost is steadier. and the winter more severe and of longer duration; the summer heat is more intense: the thermometer ranges from 96 to 42° below zero. Fogs during May and June are common along the sea coasts, but they do not appear to have much effect on the salubrity of the air. In illustration of the health of these settlements the following return is given of the sickness and mortality among the troops in Nova Scotia and New Brunswick, for a period of 20 years, according to the medical returns of strength:-

				- ong on	•
Years	Strength	Admitted	Died	Ratio p	er 1000.
		Hospital		Adm.	Died.
1817	3,245	2,499	65	770	20
1818	2,411	1,343	17	557	7
1819	2,070	1,595	36	771	17
1820	1,995	1,481	24	743	12
1821	2,034	1,828	16	899	8
1822	2,083	1,736	29	833	14
1823	1,987	1,444	24	727	12
1824	2,005	1,655	22	825	11
1825	2,196	2,418	29	1,101	13
1826	2,183	1,796	32	823	15
1827	2,212	1,724	34	779	15
1828	2,138	1,588	28	743	13
1829	2,286	2,062	28	902	12
1830	2,417	2,051	33	849	14
1831	2,463	2,182	53	886	22
1832	2,290	1,781	29	778	13
1833	1,892	1,376	32	727	17
1834	1,967	2,196	79	1,116	40
1935	2,146	1,681	18	783	8
1836	2,102	1,738	21	827	10
Total	44,120	36,174	649		
Average	2,206	1,809	32	820	14 7

This table differs from the War Office returns, which give the total deaths, arising which affect the constitution in Canada." The arr, indeed, is highly salubrious; 80 years of life being frequently attained in the full use of mental and bodily faculties. The climate of Cape Breton is much the same as that of Nova Scotia, but even more healthy; no epidemic disease, except smallpox, has been known for many years in the island, and both among the inhabitants and the troops sickness and mortality are exceedingly rare. In the adjacent island of

the War Office returns 18 per 1.000 annually. which is more than that of the dragoons and dragoon-guards in the United Kingdom, whose ratio of mortality is about 141 per 1,000 annually, and the average of sickness 109 per 1,000 more than that of the troops in Nova Scotia and New Brunswick. In Canada the medical officers' returns for 20 years show the total strength referred to in returns 61,066; the admissions into hospital of that strength, 66,957; the deaths, 982; the average annual admissions into hospital were therefore 3,348; the average annual deaths, 49: the deaths per 1,000, 16:1. The cases of sickness in Canada are 168 per 1,000 more than the dragoon-guards and dragoons serving at home; and the deaths of 16.1 per 1.000 is a medium between the ratio in infantry depôts and cavalry corps serving at The mortality shewn in the War Office returns for the same period is 1,286, making a difference of 304; of this number 122 were drowned (chiefly in attempting to desert into the United States), 13 committed suicide, 10 died of excessive drinking, 10 of apoplexy, 3 found dead, 2 killed by lightning, 2 shot dead, 1 murdered, 3 executed, 4 died suddenly,-these and other casualties make the mortality in Canada 20 per 1,000 annually. The monety of deaths in Canada were from fever; in Nova Scotia and New Brunswick from discases of the lungs. The diseases and deaths among the troops in Nova Scotia and New Brunswick, are thus shown :--

	ADMIS	SIONS	DEAT	HS	
DISEASES (The admissions & deaths		atio per Mean agth	Annl ratio per 1000 of Mean Strength		
in the United Kingdom refer to the dragoons and dragoon-guards)	Nova Scotia and New Brunswick	United Kingdom (Dragoons)	Nova Scota and New Brunswick	United Kingdom	
Fevers Eruptive Fevers Diseases of the Lungs " Liver " Stomach and Bowels Epidemic Cholera Diseases of the Brain Dropsies Rheumatic Affections Venereal Abscesses and Ulcers Wounds and Injuries Punished Diseases of the Eyes " Skin All other Diseases.	69- 2- 125- 9- 94- 5- 111- 2- 30- 83- 105- 148- 31- 51- 23- 32-	75 3 148 8 94 4 6 1 50 181- 133 126 8 19- 29- 44	16 71 21 15 14 13 5	14 11 77 4 8 12 -7 3	
Total	820-	929-	147	14	

Thus, although the climates and localities are, in many respects, dissimilar, the diseases and mortality are alike. It should be remarked, however, that the dragoons and dragoon-guards are picked men, and not subject to the exposure and hardships devolving on troops of the line in the Colonies.

Every physiological, terrestrial, and meteorological fact, in any manner connected with the mysterious disease termed cholera, is so valuable, in order that, by better understanding it, every means may be taken which can be reasonably hoped to conduce, under Providence, to its prevention, mitigation, and cure, that I am induced, to give the following remarkable statement, furnished to the War Office, relative to the appearance and progress of this extraordinary malady among the troops in British America; viz., at Nova Scotia, New Brunswick, and in Eastern and Western Canada.

"The troops in this command (Nova Scotia and New Brunswick) escaped this disease in 1832, when it raged with great severity in Canada, but in July, 1834, it broke out among those at Halifax under the following circumstances. On the 20th of that month a vessel from Quebec, where the cholera was then prevalent, entered the harbour of Halifax. During the voyage the crew had suffered severely from bowel complaints, and one of them was admitted into the poor-house labouring under symptoms of cholera, of which he died. About a week afterwards, another fatal case occurred in a person occupying the same ward, and by the 7th August the disease began to be very general among the inmates of the establishment The first cases were observed in the town about the 10th of August, from which period till the 24th the epidemic made rapid progress, and continued with various degrees of intensity till the end of September. The extent of its ravages cannot be accurately ascertained, but it is supposed that throughout the town and suburbs about 600 died. The number admitted into the civil hospitals was 1,020, and the deaths 382 The infirm, the drunken, and the dissipated were its principal victims, though to this there were many

"Among the military, two cases of simple cholera had been noticed in the 96th regiment, on the 24th and 31st July, but it was not till the 8th of August that the first fatal case occurred. After that period it spread throughout the garrison; the Rifle Brigade suffered most, indeed to such extent, that 18 deaths took place between the 21st and 25th of August. The corps was, in consequence, sent to Sackville, about 8 miles from Halifax, after which only four new cases occurred The success of this experiment led to the same measure being adopted with the 96th and 83rd regiments, who were removed to an encampment in the vicinity of the town, with the like good effect: the disease ceased both among the civilians and military about the end of September, though a few isolated cases continued to present themselves for some weeks after

"During the whole of this period bowel complaints of various kinds were exceedingly common, even

among those who escaped the graver forms of the disease.

"Though the circumstances under which the disease first appeared were such as to favour the idea of contagion, yet nothing occurred in the course of its progress to strengthen that supposition; and neither the medical officers, nor those in immediate attendance on the sick, suffered in a greater proportion than persons not so exposed.

"Of 293 women attached to the different corps, 37 were attacked and 16 died, being almost exactly the same proportion as among the soldiers Children were remarkably exempt, for of 560 in the garrison only 16 were attacked, and 6 died. The officers also suffered but little; out of a strength of 60 only 4

were attacked, all of whom recovered.

"The admissions into hospital were 210, the deaths 59. Proportions of deaths to admissions I in 3 nearly. The following Table, compiled from the Age and Service Returns furnished annually to the War Office, shows that the mortality on this occasion fell very heavily on soldiers at an advanced period of life —

Age	Strength	Total Deaths by Epidemic Cholera	Ratio of Deaths per 1000 at each Age by Epidemic Cholera	
Under 18	18		_	
18 to 25	502	1	2	
25 , 33	829	30	36 2	
33 , 40	158	14	88 6	
40 , 50	37	4	108	
Total	1,544	49	34 7	

"This Table only includes a part of the deaths, as those which occurred among the Ordnance cannot be traced

"We find it stated, that prior to the appearance of cholera there was more easterly wind than usual, and that the progress of the disease was greater during and after a long continuance of rain than in dry weather, but the meteorological observations are not sufficiently detailed to warrant the accuracy of that assertion. The epidemic does not seem to have extended beyond the limits of Halifax, at least the troops were exempt, and we can find no record of it having prevailed in any other quarter among the civil

population.

"The disease prevailed in Canada in 1832 and 1834; in the former of these years cases of it were first noticed at Quebec, on the 8th of June, among a party of emigrants who landed there on their way to Montreal, in consequence of the steam-boat in which they had embarked being over-crowded. On the following day a person belonging to the same party, but who had proceeded by the vessel to Montreal, was attacked shortly after his arrival there, and within a few days the disease became general in both towns, breaking out almost simultaneously at different and opposite parts with extreme virulence, even when no communication with strangers or emigrants could be traced; it chiefly affected residents in crowded or ill-ventilated buildings, or low and marshy situations, where whole families were in several instances cut off by it.

"By the 17th or 18th of June the disease had attained its greatest prevalence and severity, and continued with little abatement during the rest of that

month; but towards the beginning of July the cases became of a milder nature; it afterwards raged, however, at intervals, with increased virulence for a few days, and isolated cases continued to make their appearance till the month of October. The disease then ceased, after having destroyed in Quebec upwards of 2,200 out of a population of 30,000, including passing emigrants, and 3,000 in Montreal, out of a population of nearly the same extent; as the greater proportion of these perished within a fortnight after the disease appeared, the mortality during that period must have been most appalling. In Quebec it broke out among the troops a few days later than among the inhabitants, but did not affect them to quite so great an extent; out of about 1,100 quartered at Quebec 25 died, besides two or three at some of the small outposts. The 32nd Foot, which was cut off from communication with the inhabitants by being quartered in the citadel, escaped for 66 days, but then suffered as much as the rest of the troops; for of 17 attacked 11 died, and the disease was so rapid in its progress, that the average duration of the fatal cases did not exceed

16½ hours
 "In Montreal, cholera appeared among the troops two days after it bloke out in the town, and raged with still greater severity than at Quehec, for out of a force which did not exceed 550 men 39 were cut off

ın a few days

'With the view of arresting the alarming progress of this pestilence, the military at Montreal were, about the 20th of June, removed to an encampment on the island of St Helen's, and all communication with the town cut off; they remained till the end of October, during which period only one case occurred among them. A detachment of 70 men, however, who had been removed to the barrack of La Prairie, on the opposite side of the river, suffered extremely; for, of 10 soldiers attacked, 8 died; the remainder were then transferred to St Helen's, after which no fatal case, and only two or three slight attacks, occurred among them.

"On this occasion the troops at Isle aux Noix, Sorel, and the other stations in Lower Canada, escaped the disease, but within eight days after its appearance at Montreal it broke out at Kingston in the upper province, and gradually extended to Toronto, and Fort George, where it proved fatal in nearly the same proportions as in the lower province, particularly at Toronto. Though the inhabitants at By Town suffered very much, the cases among the military were comparatively few and slight, and at Amherstherg and Penetanguishene they entirely escaped. The loss of the troops at those stations in the upper province where it prevailed was,—

"As it was later in its appearance, so it was, in a corresponding degree, of longer continuance in the upper province, where cases occurred till the commencement of winter. Owing to the scattered state of the population, the precise extent of the mortality cannot be exactly ascertained; but at Toronto, about an eighth part was attacked, and of these, one-half died. At By Town, 49 deaths took place out of a population of 1,000, and in some of the smaller villages the mortality was even greater.

smaller villages the mortality was even greater.
"During 1833 no cases of cholera were observed; in May, 1834, a few were said to have occurred at Quebec immediately after the opening of the ports,

but it was not till the 7th of July that the presence of to which this exemption was attributed, and on the the disease in that town was so far accertained as to be made the subject of official announcement. On the 11th it was reported also at Montreal, but in both of these towns, and indeed generally throughout the province, its progress was by no means so rapid or so alarming as on the previous occasion. By the middle of August it was on the decline throughout Lower Canada, but did not entirely disappear till November. The mortality was not so great as in 1832, for only 930 deaths are recorded to have taken place from it in Quebec, and 882 in Montreal.

"Though one case is said to have occurred in the end of June, it was not till the 14th of July that the epidemic began to prevail among the military in Quebec. Between that date and the 4th of August, several were attacked in the town barrack; but, as on the former occasion, those in the citadel escaped till the disease was on the decline among the inhabitants; the first case among them occurred on the 18th of August, and for a week thereafter they suffered very much, though not to such an extent as the others In all, 16 deaths took place among the troops in the town and citadel of Quebec, besides 3 at the quarantine station of Gros Isle, where there was a small detachment.

At Montreal the disease appeared among the military the day after it was observed among the inhabitants, and by the 22nd of July several cases and four deaths had taken place; the troops were then removed to the Island of St. Helen's, as on the former occasion, and with like good effect, for only two cases occurred afterwards, neither of which proved fatal, though of nine cases left sick in the hospital at Montreal three died. Of the troops at Isle au Noix, and the other small military posts in the Lower Province, none were attacked, but in some of the adjacent villages it proved very fatal; at Three Rivers, for instance, 63 deaths took place out of a population of

"Following up the course of the St. Lawrence the cholera reached Kingston on the 26th July, and prevailed among the inhabitants quite as much as in 1832. The Artillery, though in an elevated and what was supposed a healthy quarter, lost five men in the course of a few days The troops of the line, who, being in a low swampy situation, were more likely to suffer, lost only one man, but their barracks admitted of a more complete separation from the inhabitants,

* "Penetanguishene, to the N. of Georgian Bay, a branch of Lake Huron, is distant about 80 miles N W. from Toronto, where a subaltern, with 30 or 40 men, is generally quartered. The barrack, a substantial stone building affording excellent accommodation, stands at the base of a long sandy ridge of ground from 200 to 300 feet in height, forming, by its projection into the bay, one extremity of an extensive harbour. There is also a small wooden hospital on the rising ground, about 400 yards in rear of the barrack. At the head of this bay, as well as for several miles to the S E., the ground is low and swampy, but as the post is well sheltered in that direction by the rise of the hill on which it is built, and the wind generally blows down the lake, the exhalations are likely to be carried beyond the garrison.

"The general character of the country in this district is undulating and hilly, but there are no mountains of any magnitude in the vicinity, though several are to be seen in the distance the soil is still covered

Artillery being removed to an encampment at Fort Henry the disease disappeared. From Kingston it extended to Toronto on the 30th of June, and committed great havoc among the inhabitants, particularly the lower orders, but the troops escaped with three cases of simple cholers, none of which proved fatal.

"The disease prevailed to a considerable extent both at Fort George and Amherstherg among the inhabitants, but did not extend to the troops, who only suffered from a general tendency to bowel complaints during the time it prevailed in the vicinity. At the remote station of Penetanguishene no cases

The proportion of deaths to the number attacked was very nearly the same in both years. situations and under all modes of treatment, about 1 in 2 died of the cases in the civil, and 1 in 3 of those in the military hospitals; but from the strict surveillance exercised over the troops, nearly half of the cases among them were noticed in the premonitory stage, and consequently could be treated with a greater prospect of success than those in the civil hospitals, where the great majority of patients were far advanced in the disease before they applied for medical aid. The admissions into hospital were 356, deaths, 127; proportion of deaths to admissions 1 in 3

"One of the most extraordinary features of this epidemic is, that the proportion of deaths to recoveries has been very nearly alike in all the Military Commands of which the medical records have

been investigated, for instance -

Military Commands	Attacks	Deaths	Prop of Deaths to Attacks
Among Cavalry in the United Kingdom, 1832, 1833, and 1834 "Troops in Gibraitar, 1834 "Nova Scotia, &c 1834 Canada, 1832 "Canada, 1832 "Black Troops at Honduras, 1836	171 459 210 259 97 62	54 131 59 94 33 20	10 m 32 10 = 35 10 , 35 10 , 28 10 , 29 10 , 31

"Thus, under all the modes of treatment which may have been adopted on these different occasions,

with primeval forests, except for a short distance around the post.

"Though this station is little more than one degree N of Toronto, there is a vast difference in the climate; the winters are as severe and as long as those in Lower Canada; snow falls about the middle of November, and continues tall the beginning of May, and, in some instances, the whole lake is frozen till the end of that month. The summers are however much cooler, and more agreeable than in either of the provinces Notwithstanding the severity of this climate, the troops have been healthy to an unprecedented degree, no death has taken place, except from accidents, since 1828, when the station was first occupied. Fevers are almost entirely unknown; and in 1836, out of an average force of 42 men, only a cases of disease occurred which could fairly be attributed to olimate; yet so sudden are the changes of temperature, that the thermometer has been known to fall from 40 deg. above to 15 deg. below zero, between midnight and sunrise."

the proportion of deaths to recoveries has not varied above one-fourth, showing that the remedial measures hitherto employed can have had little if any effect in counteracting the fatal character of the disease.

"In both these years, when this epidemic prevailed, the native Indians suffered from it to the same extent as the white population. At three settlements from which Returns were received, about a twelfth part of the population died in 1832, and about half that proportion when it again prevailed in 1834. Although their principal remedy consisted in swallowing large quantities of charcoal mixed with lard, almost exactly the same proportion recovered as among the white inhabitants of the towns, who possessed every advantage which the aid of medical science could suggest

"In tracing the course of various epidemics of yellow fever among our troops in other colonies, we have frequently noticed that all ranks were affected in nearly an equal degree, the reverse was the case, however, with cholera, particularly in Canada, for not a single officer died, and only four were attacked during the first, and three during the second epidemic. The same peculiarity was observed during

the prevalence of this disease in Nova Scotia, in 1834; and in Gibraltar there were but two admissions and one death among the officers, though there were 459 admissions and 131 deaths among the

were 499 admissions and 131 deaths among the troops This leads to the inference that though little can be done to ameliorate the character of the disease when allowed to arrive at an advanced stage, yet that a generous diet, regular habits, and the degree of attention which persons in the higher ranks of life are likely to pay to its premonitory stages, have a powerful effect in diminishing their liability to its influence

"The soldiers' wives suffered to almost precisely the same extent as the troops, but there was a marked exemption of their children from the severer forms of the disease, only seven cases and four deaths having occurred among them on each occasion, though their numbers were between 700 and 800; a very large proportion, however, suffered from diarhosa during the prevalence of the epidemic, and many were cut off by it.

by it
"The following Table, compiled from the Age and
Service Returns, furnished annually to the War
Office, shows the influence of age on mortality by this
disease among the troops—

Age	Age		St			Strength		hs by Cholera	Total Strength	by Epidemic	Ratio of Deaths at each Age	
			1832	1834.	1832	1834	both years	Cholera, in both years	by Epidemic Cholera.			
Under 18	:		18 1,172 1,070 282 38	12 695 1,145 297 47	23 39 17 3	6 12 4	30 1,867 2,215 579 85	29 51 21 6	15 5 23 36 3 70 6			
Total			2,580	2,196	82	25	4,776	107	22.4			

"As the requisite Returns are not furnished by the Artillery, this Table refers to the deaths which took place among the troops of the line only; but combined with similar results obtained in regard to those in Nova Scotia, it is sufficient to establish that the fatal tendency of cholera increased rapidly with the advance of age.

"In tracing the rise and progress of this disease, nothing is more remarkable than the regularity with which, on both occasions, it advanced along the principal channels by which the tide of emigration and of commerce flowed through the country; take, for instance, its progress along the line of the St. Lawrence and the lakes.

	Date of Appearance of the Disease				
Progress of the Disease.	1832	1834			
Quebec 3 Rivers, between Montreal and Quebec Montreal, 180 miles above Quebec Kingston, 190 miles beyond Montreal Toronto, 184 miles beyond Kingston Fort George, 40 miles from Toronto Detroit and Amhertsberg, at the ex-	28th 14th July	7th July 9th " 11th " 26th " 30th " 13th Aug			
tremity of Lake Erie	6th "	EndofAu			

[&]quot;Here, with the single exception of Fort George, had the best opportunities of forming accurate at which it appeared a few days later in 1832 than opinions, by watching the progress of this disease, might have been expected from its geographical posi- are forced to admit that its origin is still involved in

tion, this singular disease may be said to have travelled with post-like regularity.

"Along the banks of the Ottawa, another of the principal channels of emigration into Canada, it pursued the same steady course, as well as up the Richeheu, and along Lake Champlain through the United States to New York, a route which is also frequently taken by emigrants on their arrival in Quebec These circumstances, combined with the fact of several persons having died from the disease on their passage from Ireland, in each of the years when it appeared, led to the belief of its having been imported, and subsequently communicated by contagion; various precautionary measures were in consequence adopted to prevent its propagation, and strict quarantine regulations were enforced, both as regarded the troops and inhabitants, but though in some instances these were apparently effectual, in others they proved of little avail, and the contagious nature of the disease was subsequently rendered extremely questionable from the circumstance, that neither the physicians nor those in constant attendance on the sick, exhibited any peculiar liability to it.

"Of course it is impossible, in a limited Report of this nature, to enter fully on all the facts and arguments bearing on the important and much-disputed topic of contagion; we can only say that all which has been adduced on either side seems to fall far short of absolute proof, and even those who have had the best opportunities of forming accurate opinions, by watching the progress of this disease,

mystery, or at least, that the contrariety of results can only be reconciled by supposing that under some circumstances it may be contagious, while in others it

may be the reverse.

"Prior to its appearance in 1832, the winter had been extremely severe, the spring cold and backward, and the average temperature of summer considerably below its usual standard. Easterly winds had also prevailed continuously for 27 days before the disease broke out; but this is by no means uncommon in spring, though in that year they were more frequent than usual, as will be seen by the following state-

Years.	Days of Easterly Winds in April, May, and June	Days of Easterly Winds throughout the year
1832	49	121
1833	38	111
1834	36	120

"Except in regard to the slight difference in the prevalence of easterly winds, the season of 1833 was almost exactly the same as that of 1832, and yet there was no cholera; whereas that of 1834 was the

very reverse of either. With the exception of one month the winter was open, the spring mild, the easterly winds preceding the breaking out of the cholera more rare, and the heat of summer greater than for many years previous.

" Most accurate and extensive meteorological observations were made daily during the continuance or the disease, but neither variations of temperature, fluctuations of the barometer, change of wind, nor the prevalence nor absence of moisture, seemed to affect it in the slightest degree; on this point there was no difference of opinion, whatever may have existed on others connected with its origin and progress."

In July, 1849, the malady again appeared in British North America, and pursued nearly the same course it did in 1834.

Some further remarks on the influence of climate on age, and the degree of sickness and mortality among the troops serving in British America, will be given when treating of Bermuda, which is included in several of the returns relating to Canada, Nova Scotia, and New Brunswick.

CHAPTER III.

POPULATION, COUNTIES, CHIEF TOWNS, LAND CULTIVATED, AGRICULTURAL PRODUCE AND LIVE STOCK OF EACH COUNTY; GOVERNMENT, LAWS, MILITARY DEFENCE; EDUCATION, THE PRESS, RELIGION, CRIME, FINANCES, REVENUE AND EXPENDI-TURE, TARIFF, COMMERCE, IMPORTS AND EXPORTS, STAPLE PRODUCTS AND MANUFACTURES, MINES, QUARRIES, AND FISHERIES; PRICES OF PROVISIONS. WAGES OF LABOUR, PROPERTY ANNUALLY CREATED, MOVABLE AND IMMOV-ABLE WEALTH, COINS AND BANK NOTE CIRCULATION, PROJECTED RAILROAD FROM HALIFAX TO QUEBEC.

Nova Scotia, as well as other parts of duction of the small-pox, and, above all, America, was inhabited by Indians of a the maddening effects of the unlimited use reddish-brown colour, with high cheek- of spirituous liquors, have swept off nearly bones, large lips and mouths, long black all the Indians from the face of the country coarse hair, and fine, intelligent, penetrating of which they were once masters, and only eves; the males being from 5 feet 8 inches a few hundreds, principally of the Mic-macs, to 6 feet in height, with broad shoulders are still to be found. Indolent in the exand strong limbs. The two principal tribes, treme, except when roused by the stimulus the Mic-macs and Richibuctoos, differing in of hunger or revenge, the Indian dreams features and in dialect, were equally savage away a monotonous existence - his only in their mode of life and manners, but to wants are food, raiment, and shelter of some extent civilized and made nominal the simplest kind; and probably within Christians, by the early French settlers, a few years, the remnant of this species who trained the Indians to assist them in of the human race will have entirely passed their contests with the English.

The wars between the rival nations for

WHEN first discovered by the Europeans, the possession of Nova Scotia, the introaway.

I have been unable to obtain accurate de-

tails of the early progress of population in the colony: in 1749, about 140 years after the settlement of the colony, the Acadians amounted to 18,000 in number; after the removal of these people from Nova Scotia in 1755, the British settlers were computed at only 5,000, but in 1764 the number of souls was stated at 13,000, including 2,600 Acadians, who had returned to the province. In 1772, the reported number was 19,120: but in 1781, in consequence of considerable emigration taking place from the colony, follows:-

the number was reduced to 12.000. Two years after, 20,000 loyalists arrived, and the number increased to 32,000; but by the subsequent separation of New Brunswick. Prince Edward's Isle, and Cape Breton into distinct governments, the population of Nova Scotia was of course diminished. In 1807 the inhabitants were estimated at 65,000 (exclusive of Cape Breton Island). A census was taken in 1817, another in 1827, and a third in 1837, the result of each being as

Counties in 1817.			Wh	ites.	Free	Blacks.	Total in	Total in	Increase		
Counte	5 III I	017.			Males.	Females.	Males.	Females.	1817. 1827.		in 10 yrs.
Halifax .					15,181	13,929	391	350	29,851	46,528	_
Hants .					3,587	2,956	82	60	6,685	8,627	1,942
Annapolis .					4,861	4,461	171	228	9,721	14,661	4,940
King's .					3,457	3,275	64	49	6,845	10,208	3,363
Shelburne .					5,586	5,892	232	236	11,946	12,018	72
Queen's .					1,421	1,410	139	128	3,098	4,225	127
Lunenburg					3,465	3,052	58	53	6,428	9,405	2,777
Sydney .					3,531	3,100	246	214	7,091	12,760	5,669
Cumberland	•	•	•		1,641	1,348	29	30	3,048	5,446	2,398
	To	tal			42,730	39,423	1,412	1,348	84,913	123,878	21,288

The foregoing is exclusive of king's troops, whose numbers amounted, in 1817, to 1,302, and also of Cape Breton Isle, which contained, in 1817, 14,000 inhabitants; and in 1827, 30,000.

1827 is differently arranged from that of vants, exclusive of masters, as follows:—

1817; the number of males, during the former period, was 72,971, and of females, 69,577; the annual births, 5,246; the deaths, 2,124; and the marriages, 1,073.

The aggregate of the census of 1827 It will be observed that the census of shows the number of male and female ser-

Population of Nova Scotia in 1827.

		P	opulațior	1		Births	Marriages	Deaths
Counties and Districts in 1827.	No of males in the county exclu- sive of labourers or servants.	No of females in ditto, exclusive of servants	No of labourers, or male servants	No of female ser- vants in ditto	Total No of souls in the county	No of, in the county during the year	No of females married in the county during same period	No of, in county during same pe- roed, including la- bourers
Halifax County:— Peninsula of Halifax District of Halifax "Colchester Pictou Counties of— Hants King's Annapolis Shelburne Queen's Lunenburg Cumberland Sydney	5,546 4,898 3,606 6,704 3,901 4,756 6,133 1,936 4,531 2,568 6,255	6,466 4,614 3,597 6,291 3,692 4,654 6,917 5,885 1,915 4,288 2,415 5,775	1,321 689 315 408 619 537 339 273 251 315 285 431	1,106 345 185 296 415 261 253 288 123 271 148 222	14,439 10,437 7,703 13,949 8,627 10,208 14,661 12,018 4,225 9,405 5,416 12,760	384 370 334 501 339 435 635 153 331 242 508	87 105 38 70 95 71 65 129 26 78 46 126	520 157 77 115 362 115 100 124 77 123 49 89
Total	57,986	56,509	5,783	3,913	123,848	4,563	945	1,908

The following table, derived from the "Blue the number and names of the counties into Book" for 1847, gives the latest census that which it is divided :has been taken in Nova Scotia, and shows

Abstract of Census of Nova Scotta in 1837, from "Blue Book" for 1847.

Count	ties.	Heads of	Under	6 years.	Under	14 years		of Families 4 years.	
		Families	Male	Female	Male	Female	Male	Female	Total
Halifax Colchester		4,323 2,050	2,991 1,009	2,918 1,241	2,871 1.467	2,774 1,310	3,694 2,121	8,999 1,476	28,570 10,674
Pictou		3,199 1,809	2,418 1,277	2,333 1,233	2,295 1,256	1,979 1,921	6,030 1,591	3,361 3,041	21,615 11,399
Kıng's Annapolis .		2,092 1,962	1,503 1,328	1,435 1,267	1,595 1,249	1,473 1,128	2,100 3,462	3,511 1,593	13,709 11,907
Yarmouth . Shelburne . Queen's .		1,471 1,069 925	1,106 720 671	1,062 670 624	1,094 768 579	972 710 586	1,067 1,305 796	2,420 909	9,192 6,151
Lunenburg Guysborough		1,925 1,191	1,409 912	1,239 842	1,498 886	1,374 839	1,454 930	1,617 3,156 1,847	5,798 12,055 7,447
Digby Sydney		1,411 1,565	1,056 1,439	1,008 1,163	1,065 1,242	926 1,213	1,193 1,291	2,530 1,222	9,189 9,135
Cumberland Cape Breton	Cape	$1,236 \\ 2,255$	894 1,762	873 1,643	953 1,686	792 1,405	1,182 3,538	1,642 $1,792$	7,572 14,111
Inverness . Richmond .	Breton Isle.	$2{,}159$ $1{,}219$	1,560 894	1,601 888	1,601 899	1,397 816	$\frac{3,378}{916}$	1,751 1,571	14,099 7,203
	Total	34,891	22,949	22,040	23,004	21,615	36,048	42,438	199,906

Note.—There is an apparent error of 652 in the return for Inverness, which there is no means of correcting until the census of 1851.

In the ecclesiastical returns for 1847, the population of several of the counties is estimated for that year; and, if correct, there has been a large increase of inhabitants since the census of 1837: thus Sydney contained, in 1837, population, 9,135; in 1847, 17,000; Colchester, 10,674 and 14,000; Pictou, 21,165 and 30,000; Guysborough, 7,447 and 10,000 The population of Nova Scotia was estimated in 1848 at 230,200, viz., City of Halifax, and county, 40,000; County Cumberland, 10,600; Colchester, 14,900; Pictou, 30,300; Sydney and Guysborough, 23,200; remaining counties, 111,260. The population of Cape Breton was estimated in 1848, at 49,600. is now probably more than 50,000. The estimate of the population in Nova Scotia and Cape Breton for the year 1850, it is supposed will not be far short of 300,000.

The population of Nova Scotia is composed of various races, viz., French, English, Irish, Scotch, and Anglo-Americans, who quitted the United States at the period of the revolution, and, desirous of remaining subjects of the British crown, sought a new home in Nova Scotia. The French, or as they are termed Acadians, are chiefly located in the township of Clare, Annapolis, Isle Madame, and other parts of Cape Breton.

The Acadians, whose history and misfortunes are given in a previous page (163), strongly resemble in appearance, manners, and customs, the Habitans of Eastern Canada. As an illustration of the tenacity with which the Acadians adhere to their ancient costume, and discountenance among themselves the adoption of any other, -Mr. Macgregor mentions that an unlucky youth having put on an English coat, received ever after, the sobriquet of "Joe Peacock." They are an industrious and peaceable race, and have been treated, subsequent to their first expulsion from Nova Scotia, with justice and kindness. Many of both sexes are engaged in the Cape Breton fisheries.

The Irish are chiefly found in the capital (Halifax); the Scotch, at Pictou and in the eastern districts; the Anglo-Americans, in the west and midland counties. In the county of Lunenburg, there is a race composed of the descendants of a body of German and Swiss protestants who emigrated from Rotterdam in 1753. A Highland settlement was formed some years ago at Pictou; and the representatives of the brave men who fought at Culloden, still preserve the habits, and cherish the loyal feelings which distinguished their ancestors. Wherever there a piper is to be found who delights the rustic harbour before described, in 44° 40' N. lat. to battle; or he animates the festive meetings, where strathspevs and reels are danced with

in the Highlands of Caledonia.

The dark-coloured race in Nova Scotia are the descendants of runaway negroes from the southern part of the United States; of the Maroons of Jamaica, who, on their surrento receive lands in another colony, were coninappropriate place, as regards either chmate or productions, could scarcely have been chosen. In 1800, it was found necessary to Leone. During the American war, 1812-Nova Scotia. Several of these were removed to Trinidad in 1821. The survivors and descendants of these two immigrations are located chiefly at Prescott and Hammond's numbers are now between 3,000 and 4,000

them left in Nova Scotia.

The classification of the inhabitants according to religion was, according to the census of 1827; churchmen, 28,659; Presbyterians, 37,225; Roman Catholics, 20,401; Methodists, 9,408; Baptists, 19,790; other denominations, 8,365. The census of 1837 does not distinguish the religious profession of the people. Happily there are no animosities on account of religion or of race. Sir John Harvey, the present respected Lieutenant-governor of the province, in a despatch to Earl Grey of the 18th of October, 1848, says: "Men of different races cherish their national remembrances and attachments with mutual respect for each other's feelings, and their descendants form one race, and are known by but one name." The Nova Scotians are a loval. brave, and intelligent people, gifted with high natural endowments, of prepossessing appearance, pleasing manners, and very hospitable. The society of the colony is more a provincial settlement, and its tone is entirely British.

is a Highland village on the midland coast, the county of the same name, on the fine audience with the martial music which has 63° 40' W. long. The harbour is formed by so often cheered the Scotch in their march a bay about 16 miles deep, narrowed in the middle by an island, above which it again expands into what is termed the Bedford an energy and glee which is not surpassed Basin, which covers an extent of 12 square miles. The channels E. and W. of M'Nab's Island are protected by York Redoubt, Sherbrooke Tower, East Battery, and several others.

The city of Halifax is built on the E. side der, after the Maroon war, under a promise of a small peninsula on the declivity of a hill, which rises gradually from the water's veyed to Nova Scotia-than which, a more edge; its length being about two miles, and its breadth about half a mile, with wide streets, eight of which extend through the city, and are crossed by fifteen smaller remove the greater part of them to Sierra ones. Along the water's edge are numerous commodious wharfs, close to which ships can 13-14, many American slaves were received lie for the discharge of their cargoes; above on board British ships of war, and landed at the wharfs are the warehouses, and as the acclivity is ascended are to be seen the houses of the citizens, public buildings, &c. Many of the private residences are handsomely built of stone, and the houses, of wood Plains, in the vicinity of Halifax, and their plastered or stuccoed, have in several instances an imposing appearance. The pub-The Indians still form a distinct class of lic edifices are substantial structures; the people; but there are only a few hundred of Government-house at the S. end of the capital is an antique baronial looking structure, and the Admiral's house, a plain stone building, at the N. end commands a view of the harbour, telegraphs, shipping, &c. The "Province Building," erected for the accommodation of the government offices, is one of the finest edifices in our American colonies; it stands nearly in the centre of Halifax, is 140 feet long, 70 broad, and 45 feet high; the Ionic columns are of finely polished freestone, and the whole structure combines elegance with strength and utility. It contains chambers for the Council and Legislative Assembly, the Supreme Court, and all the provincial offices. The Military Hospital and other structures at Halifax do honour to the taste and judgment of the late Duke of Kent, who, when Commanderin-Chief in Nova Scotia was universally beloved. The dock-yard, one of the largest and best stored in the British Colonies, covers an area of 14 acres.

Halifax has, of late years, rapidly adgay and polished than that usually found in vanced in prosperity; in 1790 it contained only 700 houses and 4,000 inhabitants. During the late war, as a military naval Halifax, the capital of Nova Scotia, and the station, and the rendezvous for prize ships, third city in British America, is situated in the city acquired much wealth. In 1817 it

was declared a free port, and had then 1,200 about St. Margaret's Bay is fertile and well In 1827 the houses were in number 1.580, and the population 14.439. The population is now nearly 25,000. Many of the houses are still built of wood, but the dered very productive by the skill and in-number of stone and brick buildings is dustry of the descendants of the original vearly increasing. The trade of the port is brisk, but conducted with such prudent probity that in eight years there was but one bankruptcy among the mercantile com-There are several soap, candle, leather, snuff, and other manufactories, and distilleries and breweries. The markets are well constructed, and supplied with abundance of excellent meat, poultry, fish, vegetables, and fruits, at reasonable prices. The wharfs are large and commodious: the facilities for embarking and disembarking goods perfect, and fresh water is good and plentiful. The port is, therefore, a favourite resort for all persons engaged in maritime pursuits, and an agreeable station for naval and military officers. The following are the distances from Halifax to some of the principal adjacent positions—Cape Breton, 130 miles; Prince Edward's Island, 160; Fort Cumberland, St. Andrew's, 263; Fredericton, 276; St. John's, New Brunswick, 196; and Annapolis, 130; Liverpool, England, about 2,700; Boston, United States, 280 miles.

Counties.—According to the latest government returns, Nova Scotia is divided into 14 counties, five of which occupy the central portion, two the eastern, and seven the western. This appears to be the existing territorial arrangement, which is scarcely worth fuller investigation, since from the recent despatches of the Lieutenant-governor it appears probable that a more equable distribution will speedily be organized, by which the elective franchise and the advantages of municipal incorporation may be made more extensively available. central counties are Halifax, Colchester, Cumberland, Pictou, and Hants, of which Halifax, from containing the metropolis, from position and population, is the most important. It comprises four townships, viz., Halifax, Dartmouth, Preston, and Lawrence Town. The land included in the first is said to be the worst in the province; but the coast is almost one uninterrupted succession of harbours, upon each of which a few fishermen have established themselves Upon that called Sambro, which is safe and of easy access, a settlement was founded in 1780: it now contains a small population almost wholly employed in fishing. The soil and sheltered by wooded and undulating hills,

cultivated. The township of Dartmouth hes on the eastern side of Halifax harbour, and contains land, much of which is ren-German settlers A chain of small lakes intersects the province, which being connected with the source of the Shubenacadie River, greatly facilitated the formation of the fine canal which now completes the water communication between Halifax harbour and the Bay of Mines. The town of Dartnouth was founded in 1750, almost totally destroyed by the Indians in 1756, in part restored by the establishment of a whale fishery in 1784, again impoverished by the emigration of a large portion of the recent settlers in 1792. During the war it greatly increased in size, population, and wealth, and even since the peace it has improved rather than declined, though it cannot in any degree compare with its powerful neighbour Halifax. The township of Lawrence Town hes E. of Dartmouth, and continues about 12 miles along the coast. The soil is rocky and barren, with here and there spots of "intervale" or marshy land. The country behind forms the township of Preston, which was granted in 1784 to 388 proprietors — loyalists, disbanded soldiers, and free negroes. The negroes showed unusual energy, but were removed to Sierra Leone, where a large number of them speedily perished. The remainder of Halifax County not included in the township is generally of inferior and stony soil, yet it contains some thriving settlements, especially on the banks of the Musquedoboit River, and is adorned by several kinds of fine timber.

Colchester (formerly a part of the county The five of Halifax), is situated E. of the river Shubenacadie, and contains three townships, Truro, Onslow, and Londonderry, besides the settlements of Economy, Stewnack, Tatamagouche, Salmon River, Shubenacadie, Brookfield, &c.

The township of Truro, which comprises 30,000 acres, has a highly pleasing aspect when viewed from the high land on the northeast. The whole sweep of the Basin of Mines, as far as Cape Blomedon, embracing a space of more than 60 miles, is distinctly visible, while the two villages, into which the township is mainly divided, with their level marshes relieved by finely swelling uplands,

compose the foreground of this beautiful Shubenacadie on its western boundary, is a striking feature in this scene, and when viewed with a previous knowledge of the singular character of the river, it invests it with a peculiar interest. The Shubenacadie, at the ferry, where it is a mile in width, rises 50 feet at flood tide, and at the distance of 12 miles, 25 or 30 feet. At times the stream runs at the rate of seven and eight miles an hour, but notwithstanding the rapidity of the current, the river is miles, by those acquainted with its eddies. Its banks are precipitous, but in general of that formation which admits of the most fantastic appearances, being shaped by the waters, and in many places fringed and overhung by trees of great beauty. But these banks, so romantic and inviting to the lovers of natural scenery, are also enriched with inexhaustible treasures of gypsum and Quarries of excellent freestone are hme. equally accessible. The line of the bay, being almost everywhere level, presents, with the exception of Savage's Island and the site of the Presbyterian Meeting-house, only those views which the industry of man has created.

The houses are well built, and the township has handsome churches, a court-house, custom-house, and other public buildings, with good roads to Halifax, Pictou, &c. The adjoining township of Onslow contains land of excellent quality and valuable coal-mines. The same remark applies to Londonderry, and indeed to the several settlements beforementioned, which together form a tract of country remarkable both for beauty of scenery, for vegetable and mineral wealth.

Pictou contains three townships, viz., Pictou, Egerton, and Maxwelton. The general appearance of this district resembles that of most parts of the province, its surface being everywhere diversified by hill and dale, seldom approaching to the altitude of mountains, and nowhere presenting any very extended plains. In consequence of this inequality in its formation, it is well irrigated by streams and brooks, which, by their union, form several rivers. Of these, the East and East, Middle, and West Rivers, flow into the harbour of Pictou, and Big and Little Rivers discharge themselves into Carriboo, between Colchester, are the rivers Toney and John.

The north coast, though last settled, is The indenture made by the evidently a most important part of Nova Scotia. The fertility of the land, its proximity to the fisheries, its coal and other mineral productions, naturally lead to the conclusion that it will, at no distant period. be the seat of enterprise and wealth. The harbour of Pictou is admirably situated for becoming the emporium of the trade of the Gulf of St. Lawrence, and is already the centre of enterprise in that part of the pro-Between Baie Verte and the Gut vince. of Canso, it occupies a nearly central postsecurely navigable to the distance of 30 tion; and from the latter place to Quebec. although there are several harbours, both sheltered and commodious, it is not surpassed by any, either in facility of entrance, good anchorage, or general safety. It has a bar on its mouth, on which is 22 feet at low water; inside the bar, it becomes a capacious and beautiful basin, with five, six, and nine fathom anchorage on a muddy bottom.

The chief town, also named Pictou, situated about three miles from the entrance of the harbour, is a free warehousing port, and has a large and increasing trade in timber, coal, and fish. The first house was built in 1790; in 1827, it contained a population amounting to 1,439 souls, with annual exports to the value of £100.000. The houses are good, many of them being built of stone, and there is an excellent academy, library, and grammar school, besides the more ordinary public buildings. The people are chiefly of Scottish descent, and remarkable for their unwavering attachment to the language, music, and costume of the land of their forefathers. The soil of this county is in general very favourable to agriculture, and susceptible of a high state of cultivation: and the last census of produce (that of 1827) shews a great quantity of wheat raised within the county.

Cumberland county is bounded on the N.W. by Chignecto Channel, the Missiguash River, and part of New Brunswick; on the E. by the Straits of Northumberland; on the S.E. by the district of Colchester; and on the S. by part of the Bay of Fundy. Previous to the year 1784 (when New Brunswick was created a sepa-French Rivers fall into Merrigomish, the rate government), the township of Sackville was contained within the limits of this county, but it is now a part of New Brunswick, and is called Westmoreland. Cumberwhich and the boundary of the district of land county contains two townships, Amherst and Wallace, and a considerable number of settlements not comprised within The dyked land in this county, exclusive of either; viz., Fort Lawrence, Maccan, Nap- salt marshes and intervale, exceeds 17,250 pan, Minudie, West Chester, Pugwash, Fox acres. Harbour, River Philip, Goose River, &c. Adjoining the boundary line, is Fort Lawrence settlement, lying between the Missiguash and the La Planche. On the former river, which is navigable about two miles, there are 2.000 acres of dvke land, one half of which is in New Brunswick; and on the latter river 4,000 acres, one half being in New Brunswick, and the other in Nova Scotia. The fertility of this county is unquestionable, and not inferior to any other portion of America of the same extent. Here stood the rival forts of Lawrence and Beau Sejour (now Cumberland), separated from each other by the little stream of Missiguash. From the bastion of Beau Sejour fort there is a splendid view, embracing the great Tanteimarr and Missiguash meadows, Baronsfields, Westmoreland, and the country at the foot of the Shepody mountains; vast stacks of hav cover these alluvial lands, as far as the eve can reach, and the substantial farm-houses, and numerous herds, bespeak a wealthy and independent veomanry.

The township of Wallace contains several flourishing settlements. Wallace Town is situate at the mouth of the noble bay of that name, which is navigable for the largest ships above six miles, and for smaller ones above 12. The river Remsheg, after a course of 25 miles, discharges itself into the bay Pugwash Bay is one of the finest harbours in the county; and the shore is so bold that vessels of 500 tons burthen may be at all times in safety within 20 yards of it, above the channel, which is not more than a quarter of a mile wide, it becomes a beautiful basin, into which the Pugwash River discharges itself. The river Philip, which unites with several others, also discharges itself into the sea, near Pugwash Harbour. Fox Harbour, on Pugwash Bay, was settled 30 years ago by Scotch Highlanders.

Besides coal, freestone, and grindstone, gypsum abounds at the head of Chignecto Bay, and occasionally on the Maccan. Lime is also found in the vicinity of Amherst, at the river Philip, and at Maccan and Nappan. Although its value in agriculture is not unknown to the inhabitants, it has not been often applied, nor is it probable that it ever will be: the numerous bays, rivers, creeks, and coves by which Cumberland is inter- resources. The lands on the Shubenacadie sected, presenting in the alluvial deposit a are of unsurpassed fertility. Falmouth and

West Chester is situated in the centre of the county, on the Cobequid highlands. It was settled by lovalists from New York; but, although the soil is good, the position appears to have been ill chosen, and the settlement has not prospered. inhabitants of this county are chiefly emigrants (or their descendants) from New York. from the North of Ireland, and from the county of York in England.

The county of Hants is bounded on the W. by Horton, on the N. by the Basin of Mines, on the E. by the Shubenacadie River, and on the S. by parts of the counties of Halıfax and Lunenburg. It contains six townships, viz., Windsor, Falmouth, New-port, Rawdon, Kempt, and Douglas.

Windsor, the shire-town of Hants County. is delightfully situated on the Avon River, and contains many respectable private residences and good public buildings; it is distant from Halifax 45 miles, the road to which has been rendered level, and is kept in an excellent state of repair. After passing the boundary of Halifax County, the appearance of the land indicates a decided change in its quality. The sombre spruce and fir, and the dwarf birch, that clothe the country for 20 miles from the capital, are succeeded by a growth of beech mingled with hemlock. elm, and maple; and the surface of the ground is no longer encumbered with heavy From the Ardoise hills masses of stone. the whole of this township is displayed to view, and on a nearer approach it loses nothing of the prestige imparted to it by the distant prospect. It was held in great estimation by the French, on account of its extensive and fertile meadows, which they inclosed with dykes, and brought into a high state of cultivation. The crops of wheat raised here were so exceedingly abundant, that for many years previous to the war of 1756, a great quantity was annually exported to Boston.

Newport Township lies on the eastern side of the St. Croix. The upland is good, especially on the banks of that river and the Kennetcook; it is well cultivated and thickly settled. Douglas Township is one of the best in the province, from the large proportion of intervale, marsh, and upland which it contains, and its great mineral more simple and not less valuable manure. Rawdon have fertile uplands. Kempt. which

is situated on the borders of Mines Basin, surpassed in productiveness by any other in has good cod and herring fisheries.

The eastern portion of Nova Scotia now contains two counties, viz., Sydney and Guys-rings of good quality abound. borough; but the latter has, till very lately, ranked only as a township, and as such will forms a triangle, the S. side of which measures 36 miles, the W. 25, and the sea-District, and notwithstanding the numerous harbours and valuable fisheries possessed by the latter, it is much more densely popu-A large portion of its inhabitants lated. are Scotch: an extensive tract on the N. coast has received the name of Arisaig, and includes settlements called Knoydart, Movdart, &c.

The township of Dorchester, or Antigonish, situate on or about the bay of that name, contains the shire-town of the district, also called Dorchester. It is an orderly and pretty place, with a court-house, a handsome Roman Catholic chapel, a preslength, but the entrance is narrow and difficult. The land round St. George's is formed into the settlements of Pomquet, Tracadie, and Aubushée, the inhabitants and coasting trade. extends, on its interior or northern boundary, from Cape Porcupine, at the N. end of the Gut of Canso, to the eastern bounits western side, from the southern boundary of Pictou to the mouth of Ekemseegam Harbour, 30 miles; and on the sea-coast, including the shore of Chedabucto Bay, 120 miles. According to Bouchette, the township of Guysborough reaches from Crow Harbour to the northern bounds of the lower districts. The original grant was 100,000 acres, made to some American loyalits in 1784. The land of this district is extremely good, but the fisheries afford such lucrative employment, that it is cultivated little more than sufficiently for the internal supply.

The Bay of Chedabucto is the best fishingground in Nova Scotia, and can scarcely be

the world. Great quantities of cod appear early in the season, and, in the summer, herof mackerel in spring and autumn are of almost incredible extent. Mr. Murray states, be mentioned here. Sydney is divided in that in Guysborough Harbour, 2,000 or 3,000 two districts, Upper and Lower; the Upper barrels have been caught in one day, and a seme has sometimes been known to enclose from 800 to 1,000 barrels at a single draught. coast, including the circuit of St. George's Crow Harbour and Fox Island are the chief Bay, about 50 miles. In an agricultural seats of the fishery. The township of Manpoint of view it is far superior to the Lower chester hes between Milford Haven and the Gut of Canso. The soil is very good. land on the coast of the Atlantic is of the usual description: remarkable for the excellence of its harbours. Country Harbour is a noble port, navigable for the largest ships ten miles above its entrance. On the eastern side, a small town, called Stormont, was built by American refugees, in 1784, but it does not appear to have prospered. Sherbrooke, situated at the head of the navigation of the fine stream St. Mary, is accessible to vessels of 50 to 100 tons, and has a considerable lumber trade.

We now turn to the counties which occupy byterian and Baptist church, and good the western portion of Nova Scotia, beginning private houses. The harbour is six miles in with King's County, which is bounded on the N. by the Bay of Fundy, on the S. by Lunenburg and Hants, on the E. by Mines Basin, and on the W. by Annapolis. It contains four townships, viz.: Horton, Cornwallis, being chiefly Acadians, who pursue the Aylesford, and Parrsborough. Horton was "quiet tenor of their way," here, much in originally settled by the French, and in it the same manner as elsewhere, but that was situated the French village of Minas, of they employ themselves more in the fishing which few traces now remain, excepting the The Lower district scattered groups of willows, the invariable appendage of an Acadian settlement. The "Grande Prairie" comprised upwards of 2,000 acres of land, dyked and inclosed by dary of the district of Halifax, 40 miles; on the Acadians; and besides this, there were about 5,000 acres also inclosed by their diligent labour. Some years after their expul-sion, the emigrants from New England, in 1760, found the dykes in a state of great dilapidation, and the meadows under water, but, with much difficulty and considerable expense, the embankments were restored, and the land has become surprisingly productive

Kentville is the chief place in the township: it stands on the borders of Cornwallis, the river Gaspereaux, which flows through it, abounds with excellent fish, and is famous for a species called "gaspereaux." Cornwallis Township has an excellent soil, and, from its beauty, has been styled "the garden of the province;" but the adjoining township of Aylesford is little inferior to it in either respect. Parrsborough is broken and hilly, but not unproductive. The village of that name stands on the neck of land between the bay and Mines Basin, and from thence packets sail frequently to and from Windsor and Horton.

ains three townships, Chester, Lunenburg, and Dublin, the second of which is next to Halfax, the oldest formed by the English in the province. 400 families of Dutch and Germans were brought out in 1753, at the expense of the British government, which Horton.

In this district there is a view of singular and remarkable beauty, which opens unexpectedly on the traveller who descends the Horton mountains. A sudden turn of the road displays at once the townships of Horton and Cornwallis, and the rivers that meander through them. Beyond is a lofty and extended chain of hills, presenting a vast chasm, apparently burst out by the waters of 19 rivers, that empty themselves into the Mines Basin, and thence escape into the Bay of Fundy. The variety and extent of this prospect, the beautiful verdant vale of the Gaspereaux, the extended township of Horton, interspersed with groves of wood and cultivated fields, and the cloud-capt summit of the lofty cape, that terminates the chain of the north mountains, form an assemblage of objects rarely united with more striking effect.

Dr. Gesner says, "the scenery in the settlement of New Canaan is extensive and pleasing. Besides a view of the great valley seen from Beech Hill, we have here to the S.W. deep ravines, with steep banks, beneath which winding channels are formed, giving populated and neatly cultivated country, are passage to torrents of rain, after they have not often seen in that natural and delightful descended and washed the oval summits of order which is here exhibited." the hills. It is true there are no elevations of great height in this neighbourhood, but of La Have, the lands bordering on which the earth is deeply furrowed by the upturned are stony and mountainous, but abound ridges of slate, and offers a landscape singu- with fine timber. On the river there are larly diversified, when contrasted with the upwards of 30 saw-mills. In the outer harlevel appearance of the sandstone district, over which the lofty peak of the frowning affording shelter for vessels, and convenient Blomidon may be seen, ready to fall into the places for drying and curing fish, of which beautiful basin curling at its base. By turning the eye southward, a long low depression will be perceived. Here the Gaspereaux River, having taken its rise from a large lake, rolls on from cataract to cataract, or murmurs among the strata of slate, where it is compelled to pass."

The county of Lunenburg extends about 40 miles S. W. from that of Halfax, its extreme width being 35 miles, exclusive of the space occupied by nearly 300 small islands, about 200 of which are contained in Mahone Bay, and contribute to the safe anchorage for vessels of the largest magnitude which this spacious harbour affords. T is county con

and Dublin, the second of which is next to Halifax, the oldest formed by the English n the province. 400 families of Dutch and Germans were brought out in 1753, at the expense of the British government, which afterwards continued to contribute largely to their support. The settlement has passed through many vicissitudes. Since the war t has greatly increased both in population and wealth. Its annual exports of fish are verv large. The people are honest and ndustrious; they continue to live in the old German style, and to speak the German language. Their houses, furniture, pictures, &c. (for they have all these), are of the same heavy and old-fashioned, but solid and comfortable description. The townships of Chester, Mahone Bay, was settled in 1760. hester Town is situated on Mahone Bay. about nine miles from its mouth, was settled n 1760, and has a small but good harbour. It is in a thriving state. The inhabitants arry on a considerable lumber trade and fishery, and possess a number of small vessels and several saw-mills Dr. Gesner speaks in enthusiastic terms of the beauty of Mahone Bay, declaring it to present "one of the most delightful prospects in Nova Scotia. A deep navigable basin, in which numerous islands exhibit their evergreen summits, almost surrounded by a closely Township is situate on the river and harbour bour of La Have, are many beautiful islands, considerable quantities are taken here. The inner harbour, formed by the river, is capacious, and navigable for 15 miles. at the entrance has 12 feet at low water; inside there are soundings from eight fathoms gradually to three.

Queen's County extends about 30 miles along the coast, and contains two townships, Liverpool and Guysborough. Liverpool is the shire-town of the county, and was made a warehousing port in 1834. It is well, and even regularly built, and has an unusual number of public buildings. A handsome drawbridge, 1,100 feet long, has been erected by the inhabitants across the

feet deep at low water. On Coffin's Island, at its mouth, is a beacon 70 feet high, with ment, forms another barrier to its extension. revolving lights. Port Medway, the entrance southern side, is another capacious harbour. safe and navigable, on it is situated a ham-Mill Village, said to have the best land in salt marle, intervale, and upland. commendation; yet, Sir John Harvey speaking of this coast says: "except along some of the headlands, from the bald rocks of a very thriving village. which the ceaseless surge of the Atlantic has wood hills,' everywhere scattered through a foundry, and metal of a very superior the barrens, of great depth and proved fer- quality has been produced. tility. The labour of clearing lands on this more, although both are shoal harbours

bottom is the deep bay of St Mary, formed by Digby Neck. five townships, viz., Annapolis, Granville, loss. Wilmot, Clements, and Clare. Annapolis above and below the town. The fortifica- in the Colonial Office.

harbour, at a cost of £4,000. The harbour of this once famous place are falling into never freezes over, and is valuable as a decay from disuse; and the rise of Digby fishing station; but its usefulness is much and other places in its vicinity, have greatly impeded by a bar at the entrance, only nine injured its trade, while the land immediately surrounding it, being the property of govern-

Granville and Wilmot Townships compreto which is marked by a high hill on the hend, for 46 miles, the peninsula formed by western, and by low, ragged islands on the the river Annapolis, running parallel to the Bay of Fundy; both are well cultivated, thickly settled, and contain a large prolet, bearing its name, and another called portion of excellent land, consisting of dyke, the county. This, however, is not very high town (so called from a bridge that here crosses the Annapolis) is situated at the head of the navigation of that river, and is

Clement's Township possessess a rare swept every trace of soil or vegetation, there combination of advantages in good land, is a covering of earth, generally a stiff clay, valuable fisheries, fine timber, and great often, as on the front lands of Lunenburg, mineral wealth. At Moose River the An-Halifax, and Yarmouth, and on the 'hard- napolis Iron Mining Company have erected

Clare Township is almost exclusively occuside of the province is very severe, from the pied by the Acadians, who here preserve prevalence of the surface-stone, but, when their peculiar habits and customs, even more cleared, it is valuable, from its proximity to exclusively than in any other portion of the open harbours, the fisheries, and the Nova Scotia. It possesses a peculiar intergrowing commercial towns." In 1783 Guys- est from having been allotted to the Acadians borough Township, on Port Mouton, was by Lieutenant-governor Francklin, when settled by the disbanded soldiers of a corps suffered to return from their sad exile. This named the British Legion, who had served, district was then little better than a wilderwith distinction, under General Tarleton; ness, but the soil was cultivable; the seabut a dreadful fire, which consumed nearly weed on the shore afforded them abundance everything they possessed, reduced them to of excellent manure; and, stimulated by the want. The settlement has never since pros- desire of creating for themselves again a pered, and is now the abode only of a few position in their native land, they laboured fishermen and lumberers. The adjoining with persevering energy until they had ones of Ports Jolie and Hebert, are also nothing raised Clare into a prosperous settlement. The whole township forms but one parish: Annapolis County is bounded on the N. there are two handsome Roman Catholic and W. by the Bay of Fundy. At the chapels, and the people live a pious and contented life. In 1820 a dreadful confla-Long Island, and the narrow peninsula of gration destroyed nearly all their property; Annapolis contains large but the liberal contributions of the inhabiranges, both of dyked land and productive, tants of Nova Scotia and New Brunswick though somewhat stony, upland. It contains aided them in completely retrieving their

The county (until recently a township of was the capital of the province while in the Annapolis County) of Digby occupies the possession of the French, and continued to strangely-formed peninsula in the Bay of be so under British rule, until 1750, when it Fundy which bears its name; it includes was superseded as such by Halifax. The town within its limits Long and Brian Island, is built on a peninsula, which projecting into and some good tracts of marsh and intervale the river, forms two beautiful basins, one land. Of its exact limits there are no data tions, and even many of the public buildings sources of its increased and increasing prosperity are its excellent cod and mackerel | The growing importance of Yarmouth is refisheries, and the shelter which it affords to markable; its rapidly-increasing imports and vessels—the coast in its more immediate exports, and the high state of cultivation of vicinity being almost devoid of harbours.

on the basin of Annapolis, contains several whose enterprising character is evidenced good public buildings, and about 200 houses, by the sad fact, that from the formation of the and from its salubrious air, is much frequented as a watering-place. It had a wide vessels lost belonging to Yarmouth was 167: celebrity for its cured herrings, known over and of these, 34 were never heard of. all America under the name of Digby chickens, but of late years they have not been and W. by the Atlantic. It is, on the whole.

township of Shelburne county) forms the tains; but it contains several good rivers,central portion of the W. coast of Nova the Tusket River, before mentioned; the Sable, Scotia, opposite the United States. The which has a course of 20 miles; the Jordan face of the county is very agreeably diver- forms the fine harbour of Shelburne, considsified, and in point of scenery it is one of ered one of the best in America: and the the most heautiful portions of Nova Scotia. Clyde, (so called from its resemblance to the The climate is more temperate than that of beautiful Scotch river of that name) rises nor rising higher than 80°: the mean tem- forms the two harbours called Cape Negro. perature is about 48° from the salt water, apples, plums, and ships-Shelburne, Barrington, and Argyle. cherries, succeed well; and on the banks of Shelburne Township was founded by Amechorage for vessels of any size.

its mouth, expands into a good harbour. first disastrous settlement was made by the

the greater part of the district, speak volumes The town of Digby is delightfully situate for the skill and energy of its inhabitants. settlement in 1760, to 1837, the number of

Shelburne county is bounded on the S. a stony and intractable country, traversed in The county of Yarmouth (until recently a the interior by ranges of the Blue Mounless insulated parts of the province, the 40 miles in the interior, in an extensive chain mercury very rarely falling as low as zero, of lakes, and at its junction with the sea At a short distance Shelburne County comprises three townthe Tusket, pears, peaches, and melons rican loyalists, 500 families of whom arrived ripen. The sea-breeze and the fogs, which in the spring of 1783. They laid the plan occasionally occur in summer, render Yar- of a spacious and handsome town, which they mouth more suitable for the production of expected would rival Halifax, and in the potatoes and grass, the manufacture of but- autumn of the same year, their numbers ter and cheese, and the rearing of cattle, were increased, by an accession of settlers, than for the culture of grain. The soil of to upwards of 12,000. The town arose with the upland is in general strong and pro-astonishing rapidity. Money, to the extent ductive, but requires much labour in the of half a million, is supposed to have been first instance, before it can be brought into lavished upon it. But one important point a state of culture. The marshes, though had been unhappily overlooked; they had extensive, are very inferior to those at the forgotten, or miscalculated the long period head of the Bay of Fundy. They yield, that must necessarily elapse before the sterile when dyked, good grass, but are too spongy soil could yield them even a precarious subto admit of the use of the plough, partaking sistence, in return for skilful and unwearied more of the quality of peat, than of alluvial labour. The place was soon comparatively The principal harbour is Cape deserted, and is now in a very dilapidated Fourchu, or Fourché, which is large and well state, notwithstanding the excellence of its sheltered. It is surrounded by mud flats, harbour. On M'Nutt's Island, at the enthat are bare at low tides, but the channel trance of the haven, in lat. 43° 40' N., long. is navigable for large ships, as far as the 65° 8' W., is a light-house, with two fixed upper part of Yarmouth village, and for lights, one above the other; the highest 125 small craft as far as the foot of the rock at feet above the sea. Barrington Township has Milton, while the Sound affords good an- a stubborn soil, but much of it is covered with a black chocolate-coloured turf, which, The land is well irrigated by the lakes and when carefully cultivated, produces abundant rivers which intersect it. The Tusket is navi- crops. The chimate is much milder than in gable for boats 32 miles from the sea, and for the eastern portion of the province: the inships eight miles. Chebogue River is navi- habitants subsist almost entirely by fishing. gable for seven miles from the sea, and, at Cape Sable Island (not that on which the

French) is an adjoining islet belonging to this township, and the most southern point of Nova Scotia. arbour is Barringtor useful only for small vessels. At the head of yle Townit is the village of that name. ship adjoins Yarmouth, which it resembles in many respects, but it does not equal it in fertility. The large expanse called Argyle Bay forms the estuary of the river Tusket, and contains about 300 islands, called the Tuskets, many of which are well cultivated, and afford shelter and anchorage for small vessels. Argyle Town was se

alists and disbanded soldiers. It is not, at present, a place of much importance. About 13 miles from the shore lies Seal Island, which is resorted to by the fishermen for wood and water, and has been termed "the elbow of the Bay of Fundy." The principal harbour in the township is Pubnico, on which there is an Acadian settlement. There is another at Eelbrooke.

called the cultivated, counties described in this chapter, I am indebted to Messrs. Halburton, M'Gregor, I by loy-Bouchette, Murray, Gesner, and others.

County in Nova Scotia, according to the last Census in 1827.

Prod	uce.		Stock.						
· Grain Potatoes.		atoes. Hay Horses.		Horned Cattle	Sheep	Swine.			
shels	Bushels	Tons							
,317	202,642	11,873	1.480	7,588	8,759	4.160			
.018	292,235	16,756	1,440	10,177	12,713	6,912			
.562	126,654	11,750	1.609	11,701	21,128	12,945			
.067	269,807	13,790	1,264	8,226	11,576	5,533			
173	363,288	15,794	848	15,706	24,349	7,705			
328	227,948	19,977	2,486	9,475	14.863	5.927			
,100	538,903	25,333	1,789	12,580	18,574	18.514			
146	334,163	10,577	202	8.978	11,238	5,331			
476	52,817	3,577	763	2,436	2,737	1,941			
478	26,309	21,549	1,351	13,872	27,042	6,804			
,665	2,434,766	150,976	13,232	100,739	152,979	75,772			

The agricultural produce has much increased since 1827, but, in 1845, the potato disease appeared in Nova Scotia, and destroyed nearly the whole crop. In 1846, the disease spared the early potatoes, but none of the late planted were saved. In 1847 there was immense loss, partly from the rot and partly from the potato not growing, in consequence of the unsoundness of the seed. In addition to these calamities, the weevil, or fly, destroyed, in 1845-7, a very large proportion of the wheat crop. here has, consequently, been severe agricultural and general distress in the province, which has been borne with great fortitude; and in the midst of their privations, the colonists of Nova Scotia subscribed one thousand pounds sterling, to aid their suffering fellow-citizens un Ireland and in Scotland.

Nova Scotia is now recovering from its losses, and a few successive bountiful harvests will (under Providence) restore its usual plenty and prosperity. Horticulture is carried on with great success in the neighbourhood of the towns. The apple orchards of the western counties are very productive, and

extend along the road-side, through the township of Granville, in an unbroken line, for 30 miles. Apples and cider are annually exported. Potatoes are sent to the United States, cattle to New Brunswick, and sheep and live stock to Newfoundland. Fine flour is still largely imported from the United States.

According to the "Blue Book" for 1847, the total number of acres granted and sold in Nova Scotia and Cape Breton, is as follows:—

Granted	Nova Scotia	Cape Breton.	Total.
Acres granted	4,604,799 248,168 4,490,511 30,536 208	132,355	5,324,635 380,523 5,786,620 36,654 268

About 50,000 acres have been granted for the support of religion and schools. There have been set apart for the remnant of the Indians in Nova Scotia, 12,050 acres of land, and in Cape Breton, 12,000 acres.

Sir John Harvey states that the land under

tillage in 1848, comprised 400,000 acres, and adds, that there is, perhaps, an equal amount chopped, used as pasturage, or yielding from the virgin soil, by the rude process common to new countries, a valuable portion of subsistence to recent settlers. A very large part of the whole, perhaps 9,000,000 acres, is still covered with primeval forest, or has only changed its aspect for the worse from the action of fires, which, in the heat of summer, often run over uncultivated portions of the country, deforming its surface and injuring its fertility.

The grants and sales of land in Nova Scotia, from 1831 to 1840, were:

Grants				Sales				
Years	Acres	Years	Acres.	Years	Acres			
1831	25,328	1836	5,474	1841	5,061			
1832	6,254	1837	3,500	1842	1,924			
1833	2,229	1838	1,679	1843	4,235			
1834	5,327	1839	1,450	1844	8,987			
1835	7.650	1840	6.225	1845	21.921			
	•		•	1846	35,784			

During the same period, there were three grants to military offices, amounting to 2,400

Abstract of the Sales of Crown Land, &c , from the 31st December, 1838, to the end of 1846

Years	Number of Acres	Amount of Sales paid in	Instalments of preceding years
1839	10,612	£1,122	£580
1840	6,935	836	699
1841	5.061	722	278
1842	1,924	328	236
1843	4.235	583	75
1844	8,987	1.087	35
1845	21,921	2,536	42
1846	35,784	3,974	151
	95,459	11,188	2,096

The legislature of Nova Scotia has con tinued for three years an "Act on the Disposal of Crown Lands," which expired in 1846. Th principal provisions are :—1st. The Governo. and Council to name any fixed price on lands not less than 1s. 9d per acre. 2ndly. To grant lands, at such price as they think fit to occupants who have held and improved the same, without authority. 3rdly. make free grants to retired officers, and to non-commissioned officers and privates 4thly. To make reserves, and free grant of such reserves, for the use of the Indians.

By a recent colonial act, the price is fur ther reduced to 1s. per acre; but it is doubtful whether the measure will be confirmed.

and Cape Breton was, in 1845, 615; in 1846, 398; in 1847, 2,000; in 1848, 140.

The Lacutenant-governor strongly deprecates any extensive emigration of the poorer classes from the United Kingdom to Nova Scotia, on the ground that the province would not afford the people sufficient profitable employment.

GOVERNMENT.—The administration rests on the same popular basis described in the history of Canada. There is a Lieutenantgovernor appointed by the crown.

The Executive Council consists of about six members, including the President, the Secretary of the province, and the Attorney and Solicitor-general.

The Legislative Council comprises 19 members, including the Bishop of Nova Scotia.

The House of Assemb'y is formed of 51 representatives, of whom the counties of Halifax, Pictou, Cumberland, Hants, King's, Queen's, Lunenburg, Sydney, and Guysborough, each return two members, and the other counties one member each. The island of Cape Breton sends six members to the Provincial Legislature; viz., from Cape Breton County, one; Richmond County, one; Inverness County, two; and the townships of Sydney and Arichat, each one member. Halıfax township returns two members, and the remaining 18 townships in Nova Scotia, one member each.

The qualification for electors is the possession of land yielding an income worth 40s; a franchise easily obtainable, owing to the low price of land.

The Nova Scotians enjoy self-government in all things regarding their own internal affairs, as perfectly as a reflective and practical people can desire. Halifax is the only incorporated city; but the townships possess some municipal privileges.

Military Defences - The militia returns for 1847, show a total of 36,066 men for Nova Scotia, and 8,182 for Cape Breton= They are divided into regiments 44,248 and battalions; and subdivided into about 420 companies, with 42 heut.-colonels; 51 majors; 362 captains; 318 first lieutenants; 349 second heutenants; 42 adjutants; 12 pay-masters; and a full staff of commissioned and non-commissioned officers. The rank and file, between 16 and 18 years of age, are 3,618; between 18 and 45 years, 28,996; between 45 and 60 years, 5,839.

The militia regiments are officered under The number of immigrants in Nova Scotia commissions from the crown; and when emmilitia of Nova Scotia could soon be ren- Rolls and four Masters in Chancerv. of about 50,000 men.

of the royal navy in summer

The military posts and works, protected Battery, N.W. Arm Battery, Fort Need- jurisdiction throughout the province. ham, Fort Charlotte, George's Island, Fort Sambro Island, and Sackville, all at Hahfax; and at Windsor, Fort Edward; at from the provisional treasury. Annapolis Royal, Fort Anne; and at Cape have been constructed at the expense of the colony, for the protection of the different harbours along the coast · there are guns at most of them, which are in charge of the militia.

Laws and Courts.—The laws in force are: 1st. The common law of England. 2nd The statute law of England. 3rd. The statute law of Nova Scotia. There is a Court of Error, Court of Chancery, Supreme Court, Court of Vice-Admiralty, Court of Marriage the Peace, and Courts of Probate. Besides Established by Provincial Act, 4 Vict., c. 13 these, the magistracy of the province, scattered over every county, possess a power of 5 Vict., c. 32, establishes courts for the circuit of the province, and holds sittings registrar, paid by fees. twice a-year in each county, in addition to than in Nova Scotia. In all these courts, natives of the province preside; and the 140 members, includes the names of but very few not born in Nova Scotia.

the sum in dispute exceeds £300.

The Court of Chancery is similar in its libraries.

bodied for actual service, are subject to constitution, powers, and mode of procedure. martial-law. Every man in the province to the Chancery Court in England. The has a right to carry a gun, and there are few Lieutenant-governor is Chancellor, ex efficio unpractised in the use of fire-arms. The He is ordinarily assisted by the Master of the dered a very formidable force, to the number salary is atttached to the office of Chancellor. His fees, in 1844, amounted to about £30. Two or three regiments of the line are The Master of the Rolls receives a salary of always stationed in the province, which is £650, without fees. The Masters receive no further protected by the visits of the ships salaries, but are entitled to fees regulated by law.

The Supreme Court consists of a Chief by Great Britain, and under the control of Justice and four Assistant Judges. It sits the Board of Ordnance, are Fort George or at Halfax, three times a-year, and in each Citadel, Grand Battery, Ogilvie Battery, of the counties of the province, twice a-year, Prince of Wales Tower, Port Pleasant and exercises a general criminal and civil

The travelling expenses of the judges, Clarence, York Redoubt, Sherbrooke Tower, when on circuit, are defrayed by an allowance of one guinea per day to each, paid

The Courts of General Session of the Peace Breton, Sydney Battery. Various batteries are, in constitution and practice, similar to the Courts of Quarter Sessions in England, but the power of trial by jury therein, has been transferred to the Supreme Court.

> Courts of Vice Admiralty.—The Judge of this court is also the Master of the Rolls in Chancery. No salary is attached to the Very little business is transacted in office. this court.

C urt of Marriage and Divorce-Consists of the Lieutenant-governor and the Executive Council; the Lieutenant-governor being Preand Divorce, Courts of General Sessions of sident and the Chief Justice Vice-president.

commitment for criminal offences, and for Probate of Wills and granting Administrathe collection by summary process of debts tions in each county of the province. The under £10. The Supreme Court makes the courts consist respectively of a judge and

The Press—18 as free as that of England. three terms at Halifax. The criminal calen- There are at present 13 newspapers published dar is generally very light; indeed, it may in the capital, and five in the interior. The be safely asserted, that in no part of her circulation of English newspapers has in-Majesty's dominions is the average amount creased an hundred-fold since the establishof crime less, in proportion to the population, ment of the line of steam-packets, and all the leading periodicals of the United Kingdom are looked for with as much eagerness, bar, which practises before them, numbering and received with as much certainty, as the London newspapers were in Scotland and Ireland a few years ago. The cheap litera-The Court of Error consists of the Lieu- ture of the mother country is also widely tenant governor and the Executive Council. diffused over this province, while the more Appeals he from the Supreme Court, where expensive books find their way to the collections of the wealthy or into the public

The "Art Union" has been the means of promoting the dissemination of paintings and engravings. Among the public institutions, is the Halifax Subscription Library, the Hahfax Mechanics' Subscription Library, the Halifax Mechanics' Institute, Dartmouth Mechanics' Institute, Sydney (Cape Breton) Mechanics' Institute, Pictou Laterary and Scientific Society, and the Young Men's Debating Club, Halifax. There is a Central Board of Agriculture at Halifax; and twenty Agricultural Societies in Nova Scotia and Cape Breton. There is also a Horticultural Society at Halifax.

Education.—The provincial legislature, as also many private individuals, have made strenuous efforts for promoting the benefits of education. By an Act passed in 1811, any settlement consisting of 30 families, raising a sum of not less than £50 by assess-

entitled to £25 from the treasury of the province, towards the establishment of a school or schools.

At Halifax there is a National, a Catholic, Acadian, Grammar, and St. George's schools. There are academies at Pictou, Windsor, Horton, Yarmouth, Annapolis, &c. There are besides, in the several counties and districts of the province, 1,025 common schools, at which, in 1847, 34,380 children received instruction. A large number of these are poor children, who are taught gratuitously. These schools are supported, in part, by the province, and partly by subscription. The expense of each school, including stationery and fuel, is about £30 per annum. There are also about 40 schools in different parts of the country, which are chiefly supported by the "Society for the Propagation of the Gospel." A respectable high school, or ment, after the manner of poor-rates, are academy, is maintained in each county.

Abstract of Returns of Common Schools, for the Year 1842

Court on Post of	Number	Scholars			Income. (Shillings and Pence excepted)		
County or District	of Schools	Paid	Free.	Total	From People	From Treasury	Total
Halifax, Western, exclusive of City	17	800	103	903	£389	£209	£599
Halıfax, Eastern	15			494	513	140	654
Colchester	53	1,500	165	1,665	1,419	329	1,749
Pictou	78	3,872	195	3,977	2,146	542	2,688
Sydney	36	911	100	1,011	849	301	1,150
Guysborough	22	699	111	810	446	231	677
St. Mary's	13	337	54	391	233	90	324
Hants	45	1,545	132	1,677	998	330	1,328
King's	61				1,075	369	1,445
Annapolis	55	1,478	292	1,770	1,830	357	2,187
Digby	49	1,079	109	1,188	921	305	1,226
Yarmouth	62				1,276	282	1,558
District of Shelburne	18	416	30	446	320	129	449
District of Barrington	24	508	65	573	358	153	511
Queen's	30	658	33	691	510	230	740
Lunenburg	53	1,384	180	1,564	1,139	401	1,541
Cumberland	55	1,698	98	1,796	1,589	348	1,937
Cape (Cape Breton	47	1,615	156	1.771	1,019	315	1,334
Breton Richmond	22	539	73	612	447 •	294	741
Island.(Inverness					٠	386	
Total	755	18,949	1,896	21,339	17,484	5,749	22,847
Combined Grammar and Common Schools	42	1,603	151	1,894	2,883	1,620	4,365
Grand Total	797	20,552	2,047	23,233	20,367	7,369	27,202

Sound education is of great importance for the preservation of the unity of the British empire; by instruction based on Christian principles, angry passions are softened, prejudices allayed, virtuous tendencies strengthened, and self-improvement promoted. An industrious, moral, and contented people are more easily governed and retained VOL. I.

in allegiance to sovereign rule than an ignorant and semi-civilised race, whose passions and prejudices render them the tools of any designing demagogue. It is therefore the true policy of England, to diffuse among her people the knowledge of their actual condition, to enable them rightly to appreciate their privileges and fulfil their duties.

nues of the province for the above schools, and for the colleges and academies in Nova Scotia and Cape Breton was £11,998, distributed as follows :--

tributed a	es iohoms:						
Dalhousie						. :	£40
	ege, Windsor	•					400
St Mary's							44
Acadıa Col	lege .	•					444
Sydney Ac	ademy .						200
Academy a	t Port Hood						100
Instruction	of the Indian	18					300
Uniacke's	Schools, Halif	ax					100
Wesleyan	Schools, Halif	ax					100
African Sci	hools, Halıfax						100
Infant Sch	ools, Halıfax				•	•	50
Infant Sch	ools, Pictou			•	•		50
School in I	Poor-house, H	alıfa	x	•			25
Grammar 8	School, Halifa:	x			•		150
	chool, Halıfax						150
Roman Car	tholic School,	Hali	fax				80
Academy a	t Yarmouth					•	13
Ditto	Lunenburg						100
Ditto	Annapolis						78
Albion Aca	demy at Ann	apoli	8.				28
Academy a	t Colchester						100
Ditto	Cumberland					,	100
Ditto	Sydney						100
Ditto	Guysboroug	h					100
Ditto	Cape Breton	1					100
Ditto	Inverness						100
Ditto	Richmond						100
Ditto	Digby						100
Ditto	Shelburne			-			100
Ditto	Queen's Cou	intw	Ĭ		-		100
Acadia Sch			:	-	-	:	10
St. George'		•			-	-	10
	Common and	Gran	nmar	Scho	ols	. 1	1,62
Common S		wh			-		5,74
Common N		•	•	•	•		,,,

Total . £11,998

By the Common School Act of 1826, the province is divided into districts, in which the people appoint their own trustees, and manage their schools on a popular basis, controlled only by Boards of Commissioners, appointed by the executive. This Act is subject to the revision of the legislature There is an exevery three or four years. cellent Mechanics' Institute at Halifax, and similar useful institutions in different parts of the province.

There are four collegiate institutions in the province. King's College, at Windsor, was founded in 1802, under a royal charter, his grace the Archbishop of Canterbury being the patron. The Lieutenant-Governor, the Bishop of Nova Scotia, and other provincial officers, form a Board of Directors. The statutes of the college are similar to those of Oxford, but religious tests in regard to graduates have been removed many years. The institution is under the immediate ma-

The amount of the grants from the reve- £312. A professor of mathematics, natural philosophy, and astronomy, with a salary of £176; and a lecturer in modern languages and literature, with a salary of £100. There are 22 students; and in connection with the college is an academy or preparatory school, with about 23 scholars. The college is supported by temporary annual grants from the Society for the Propagation of the Gospel, and the Society for Promoting Christian Knowledge, amounting to £900 sterling in 1844, and by an allowance of £400 sterling, per annum, granted by a permanent Act of the Provincial Legislature

Dalhousie College, at Halifax, has three

professorships.

Acadia College, at Horton, was incorporated by Act of the Legislature in 1840, and is under the control of the Nova Scotia Baptist Education Society There are three professors, and 21 students.

St Mary's College, or seminary at Halifax, was established in 1841, and is under the control of the Roman Catholic body. There are four professors, one teacher, and 40 stu-

dents.

As the different colleges are connected with different interests, and evince a sectarian rivalry, prejudicial to sound learning and the spirit of Christianity, endeavours have been made by the Earl of Dalhousie and Sir James Kempt, to procure an union of the colleges, so as to form one establishment, and place the higher branches of education on a more permanent foundation Lord Glenelg, Lord Stanley, and other colonial secretaries, strongly recommended the measure, which has not yet, however, been carried into effect.

Religion.—The Established Church is under the direction of a bishop and an archdeacon. In 1847 there were 35 clergymen, whose incomes varied from £150 to £250 a-year, with, in most parishes, a parsonage house and a glebe of 300 to 600 acres. The diocese of Nova Scotia was created in 1787. The Nova Scotia "Blue Book" for 1847 (which is very defective, compared with the full details given in the Blue Books of other colonies) does not state the number of mi nisters of Presbyterian, Roman Catholic, and other denominations.

It is difficult to state the number of ministers of the Presbyterian Church, as they are divided into several synods. The synod o' Nova Scotia, "in connection with the Established Church of Scotland," had, in 1848 nagement of a president, with a salary of three ministers; the synod of Nova Scotia "adhering to the Westminster standard." about 12 ministers in Nova Scotia and Cape Breton; the "Presbyteman Church of Nova Scotia" about 26 ministers: the "Weslevan Missionaries in Nova Scotia and Cape Breton," number about 20; the "Evangelical Lutheran" and the "Universalist" churches, each one minister; the "Baptist ministers" are in number 49; the "Free Christian Baptist ministers" are nine; the "Free-Will Baptist ministers," seven, and two missionarres to travel through different parts of Nova Scotia: the "Free and Sovereign Grace Baptists" have one minister; the "African Baptist Church," one; and the "African Episcopal Methodist Church," one. Roman Catholic church has two dioceses in the province, one for Nova Scotia and the other for Cape Breton. The bishop of Halifax has under him a vicar-general and 13 priests. The bishop of Arichat (Cape Breton) a vicar-general and 19 priests.

The different churches are sustained by those who take an interest in them; and religious distinctions are happily attended with few inconveniences. There are in the province a Diocesan Church Society, a Bible Society, Naval and Military Society, a Wesleyan Methodist Missionary Auxiliary Society, a Baptist Education Society, a Board for Foreign and Domestic Missions, a Lay Association in support of the Church of Scotland, St. John's Church Young Men's Religious Association, a Halifax Bethe' Union, a Pictou Auxiliary Bible Society, and a Seamen's Friend Society.

Of charitable societies there were also in 1848, a Nova Scotia Philanthropic Society a "Youths" ditto, St. George's, Charitable Irish, Juvenile Charitable Irish, Highland and North British societies. A Halifax Dispensary, an African Friendly, and African Abolition Society. Of temperance societies there are the Halifax, the Halifax Female Dartmouth, St. Mary, and St. Patrick's societies, Halifax Young Men's, and the Pictou Total Abstinence societies; and the Sons of Temperance.

The Roman Catholic bishop took the temperance pledge publicly, and then administered it to many of his congregation. Some of the temperance processions number 400 members. Great good has been effected by these valuable institutions. Of masonic lodges there are 13 in Nova Scotia, and one in Cape Breton, and of the "St. John's Priory of Knights Templars and Appendan Orders, holden of the Supreme Grand Con

'lave of Scotland," of which Lord Glenlyon s the grand master, and the Earl of Dalouse the grand seneschal, there are three, viz.—the St. Andrew's Royal Arch Chapter, he Thistle, and the Acadia.

Crime.—The "Blue Book" for 1847, eports a nearly total absence of crime, and hat there are no debtors in the prisons.

Finances. - The revenue derived from axes, viz, customs, excise, light dues, and incidental, was, in 1832, £47,299; in 1836, £49,466; in 1846, £82,776. No part of the revenue of the province is derived from direct taxes. The customs duties are levied under the authority of the Act of the Imperial Parliament 8 and 9 Vic, for regulating the trade of the British possessions abroad, and the Acts in amendment thereof. amount of those duties collected at the ustom-house, and paid into the provincial treasury for the year ending 5th January, 1847, was £29,251 sterling. The colonial mpost duties levied by authority of an Act of the Provincial Legislature, passed 31st March, 1846, yielded in 1847 £43,531.

The total revenue collected in 1847 was, fixed customs, £29,251; colonial imposts. £43,531; light dues, £3,318, total, £76,101; incidental, £6,676, including £4,760 received from savings' bank, proceeds of bills of exchange, &c; receipts in aid of revenue, £18,569, including amount of bills drawn by the collector of customs on the Receivergeneral in England, £3,448, stipends of clergymen of Nova Scotia paid from the military chest, £3,062, deducted from postoffice revenue, £6,502; bills drawn by bishop and archdeacon on her majesty's treasury, and by clergymen on the Society for Propagating the Gospel, £4,700; casual and territorial revenue, £9,678, including rent and proceeds of her Majesty's coal mines in Nova Scotia and Cape Breton, £5,714; sales of crown lands, £3,408; fees, £549. The total receipts obtained in 1847 were, therefore, £111,025. The population of Nova Scotia and Cape Breton (in round numbers) is 300,000, and the taxation about £110,000 a-year, the sum contributed by each individual in the colony is only seven shillings per annum.

The tariff for 1847 was fixed by the legislature of Nova Scotia as follows:—Anchors, cables, ashes, barley, beans, books, coal, coin, copper wrought or cast, corn, fish, oil, flax, furniture (working tools belonging to emigrants for use), hemp, hides, horns, iron, wrought, cast, &c., machinery, nets, ores,

palm oil, pitch, plate, rags, rice, rosin, sails, salt, seeds, skins, sugar, maple, tar, tobacco unmanufactured, tow, turpentine, whalebone, &c., 3d. per lb.; chocolate or cocoa paste, £109,905. 1d. per lb.; coffee, 4s 4d. per cwt.; clocks for clocks 20 per cent. on value; leather, sole dressed, 1d per lb.; ditto upper, $\frac{1}{2}d$, boots and shoes 10 per cent on value, spirits made within the province, 1s. 4d per gal., except rum, which is charged with 7d. per gal.; spirits imported, 1s. 8d per gal., sugar, bastard, 4s per cwt.; crushed, 6s. per cwt.; refined, 8s per cwt.; muscovado, 2s per cwt; tea, black, 11d per lb.. gunpowder, 3d per lb; tobacco manufactured, $1\frac{1}{2}d$. per lb; wines, 1s 3d. to 2s. 6d per gal., manufacture of wood, 10 per cent . all other goods, wares, and merchandize, 5

The light dues yielded in 1847 £3,318, and are levied at the rate of 44 per ton on every vessel cleared at any custom-house in the province, and on every province from any port or place out of the province. A certificate of these dues being paid, exempts a vessel from any further date of the certificate. By means of this 1847, was £7,662 fund, which is held sacred to the building erally supported by Canada, New Brunswick, and Prince Edward Island, 20 light houses are in full operation, under the management

of a board of commissioners. About £10,000 a-year is locally levied in land. direct taxation for the support of the poor, and county charges. Every adult is compelled to perform statute labour on the lings and pence excepted):roads; but this labour may be commuted by a money payment, if preferred. Roads and bridges are maintained by this contribution, in aid of which the legislature grants an annual sum, which has risen as high as £35,000, and seldom falls below £25,000 a-year.

The expenditure of Nova Scotia in 1847 was, civil establishment, £12,166; customs, £9,462; judicial, £5,688; ecclesiastical, £7,662; legislature, £3,745; militia, £600; pensions, £920; roads and bridges, £30,863, education, £11,182; navigation security, £4,576; bounties, £20; postal communication, £7,163; humane establishment on

Sable Island, £2.156; famine relief for Ireland and Scotland, £1,000; penitentiary, £1,160; repairs of public buildings, £1,593; -all admitted duty free. The duties on principal and interest of funded debt, £9.762; some of the other principal articles imported other miscellaneous disbursements, £12,595; were, on candles-tallow, 1d per lb.; wax, total in 1847, £122,222; and in 1846.

The salaries are, lieutenant-governor, under 20s, value, 5s.; others, 10s; materials £3,500: provincial secretary, £1,000: treasurer, £480; commissioner of crown lands. Nova Scotia, £500; in Cape Breton, £332; collector of colonial duties, £560; deputy post master, £500; surveyor-general, £150; private secretary to governor, £250. Law. chief justice, £1,000; four puisne judges, £2,510; master of the rolls, £650; attorney-general, £600; solicitor-general, £100. Ecclesiastical. bishop, £2,000; archdeacon £300.

> Legislature —Legislative Council expenses, £575; speaker of House of Assembly, £160, pay of members of the House of Assembly and travelling expenses, £2,096; clerk of the House of Assembly, £240; assistant clerk to the House of Assembly, £160.

The bishop of Nova Scotia has £2,000 vessel coming into any port or place in the a-year; the archdeacon, £300; and there are from 28 to 30 clergymen; missionaries of the Society for Propagating the Gospel, with salaries varying from £150 to £170 payment to the 31st March following the per annum. The Ecclesiastical charge for Paid by Great Britain.

£1.840 is voted towards steam commisand maintenance of light-houses, and lib- sions, viz, between Pictou and Quebec, £500; Pictou, Prince Edward Island, and Cape Breton, £340; Halifax and Yarmouth, £500; and £500 to the "North America," which plies between Halifax and Newfound-

The "Blue Book" for 1847 gives the following recapitulation of expenditure (shil-

Establishments	Paid by Freat Britain	Paid by Colony
Civil Establishment .	£4,407	£3,200
Contingent Expenses	2,648	2,009
Legislature		3,745
Judicial Establishment	2,480	2,480
Contingent Expenses	45	683
Ecclesiastical Establishment	7,662	•
Military		695
Customs	9,383	80
Miscellaneous Expenses .	7,987	73,792
Pensions	200	720
	£34.815	£87.406

£122,221. Total : .

In the year 1847 the public debt of the province was £77,750, of which sum about £50,000 was in circulation as paper money, under the guarantee of the provincial government

The colonial expenditure for the year 1846-47, on account of Nova Scotia, Cape Breton, New Brunswick, Prince Edward Island, and Newfoundland, is stated in a parliamentary return, dated 20th April, 1849, to be as follows:—Military expenditure, £170,464; civil expenditure, £12,077; naval expenditure, £2,115; total, £184,656.

The expenditure incurred by Great Britain for military protection, and in aid of the civil establishment was, in 1847, as follows: —Supplies for rations of provisions and forage, £8,709; fuel and light, £2,636; regimental and staff pay, £31,261; land and water transport contingencies, &c , £5,765; total (shillings and pence excepted), £48,374; military works of defence, £14,046; subsistence royal engineers, £1,815; subsistence royal artillery, £3,848, ordnance establishment, £1,947; barrack establishment, £2,752, barrack supplies, £317; wages, £1,408; = £26,136. In aid of the civil establishment, stipends for missionaries, £3,062; grand total, £77,572. The above is the total expense defrayed by the commissariat chest for the services stated, but many officers of the line receive their pay through their agents in London. The troops do not receive any advantage from the colony, The amount of except marching-money. bills drawn during the year 1847, was £104,979.

Commerce.—The geographical position of Nova Scotia, its fine harbours, and the maritime character of the people—to whom the sea is a familiar object from childhood, and,

"Who turn what some deem danger to delight,"

all indicate that this almost insulated province is eminently adapted for a commercial emporium. Sir John Harvey, in his Report to Earl Grey with the "Blue Book" for 1847, says:

"The farmers' sons in the midland counties, where ship-building is also carried on, become shipwrights, mariners, or masters of coasters and plaistermen, just as the prospects of advantage are presented, or accident may give a bias to the mind. Further east the coal trade, the supply of West India produce to Canada or of agricultural productions to Newfoundland, offer to the enterprising their peculiar attractions. The west has its grindstones, cordwood, and other articles, to convey to the United States; and on the southern seaboard the coast and deep sea fisheries people the rugged caves and mlets which indent it

with a hardy race, to whom farming and gardening are but the amusements of an idle hour, whose homes and whose occupations are on the sea. An active coasting trade springs naturally in a country so situated, it becomes intercolonial almost as soon as it is generated; as in some cases only a narrow strait or arm of the sea divides one colony from another, while the supply of the British West Indies very early attracted towards those islands from Nova Scotia an extensive trade in fish and lumber

"Prior to 1824 the foreign trade of Nova Scotia was very limited, but the changes in the commercial policy of the empire, suggested and carried through by Mr Huskisson, opened a wider field for colonial enterprise, of which the North Americans were not slow to avail themselves. With every relaxation yielded by the Imperial Parliament the foreign commerce of the colonies has attained a further development, and Nova Scotia vessels, besides their traffic with the neighbouring states, Canada and the West Indies, now trade to the Baltic, the Mediterranean, China, the Mauritius, the East Indies, the Brazils, the Havanah, and our merchants and mariners are fast acquiring an accurate acquaintance with distant seas and with foreign markets in every part of the world.

"Carrying out the policy suggested in your Lordship's despatch of 31st December, 1846, and cooperating under the auspices of Lord Elgin, the Colonial Legislutures have adopted measures for establishing among the northern group a free intercolonial trade, only modified by considerations which touch sources of revenue already pledged for indispensable fiscal obligations

"One further change is now anxiously desired and as confidently anticipated. It is the realization of that policy, suggested in the correspondence between Lord Palmerston and Mr. Bancroft, for an unrestrained reciprocal commerce between Great Britain and the United States, and the repeal of the Navigation Laws Such measures would give a stimulus to the trade of all those colonies; and their population would gladly welcome American vessels into their rivers and bays, provided the whole continent south to Mexico were open to their tonnage; and if their fish, timber, deals, coal, and agricultural productions were admitted on equally favourable terms into the ports of the United States Negotiations have been suggested, I believe, between the governments of Canada and Washington on the basis of the Bill recently introduced to Congress by Mr. Grinnell, and Nova Scotia would cheerfully avail herself of any advantages which Canada may thus secure?

The trade betweeen Nova Scotia and Great Britain has, for some years, been almost stationary, especially as regards imports from the parent state. The exports of the province have largely increased between 1827 and 1847, especially as regards the commerce of the West Indies and North America. The total value of the exports was nearly quadrupled in 20 years; and the shipping employed was increased in about the same proportion. If the government of the United States granted reciprocity of trade to British America, Nova Scotia would be materially benefited by such an act of justice.

The trade of Nova Scotia and Cape Breton with different countries, will be seen by the following returns for the years 1847 and 1827:

	Great	British Possessions			United	Foreign	
Imports, Exports, Shipping	Britain	West Indies	North America	Elsewhere	States.	States.	Total
Imports in 1847— Nova Scotia—value Cape Breton	£326,726 4,189	£28,850	£177,040 10,550	£1,469 2,641	£300,418 8,965	£169,984 1,112	£1,004,487 27,468
Total Imports in 1847	£330,915	£28,850	£187,590	£4,110	£309,383	£171,106	£1,031,955
Ditto in 1827	£307,907		£190,309		£31	2,603	£810,819
Exports in 1847— Nova Scotia—value Cape Breton	£68,217 3,587	£201,808 607	£207,808 29,196	£5,467 1,120	£258,281 16,669	£31,630 6,679	£773,211 57,860
Total Exports in 1847	£71,804	£202,415	£237,004	£6,587	£474,950	£38,309	£831,071
Ditto in 1827	£121,617		£107,738		£36	,922	£267,277
Shipping in 1847— Nova Scotia Cape Breton	Tons 63,370 3,679	Tons	Tons 123,909 25,615	Tons	Tons 174,406 18,679	Tons 5,773 1,032	Tons 367,458 49,005
Total Tonnage, in 1847 .	67,049		149,524		193,085	6,805	416,463
Ditto in 1827 .	22,615		100,324		10,	874	123,813
Increase	44,434		49,200		189	016	282,650

The principal imports at Nova Scotia in 1847, from Great Britain were, dry goods, £81,128, cordage, £23,516, chain cables, £7,249, canvass, £3,319; earthenware, £6,084, books and stationery, £3,401; glass, £6,173, hardware, £12,011; hats or caps, £2,565, iron and castings, £27,990; indigo, £2,125; nets and lines, £7,385, nails, £5,985; linseed oil, £3,425; paint, £4,584, iron pipes, £2,893; tea, £53,987, sugar, £5,075, salt, £13,347; soap, £5,740; stores, £2,082; wine, £4,461; brandy, £10,721; Geneva, £5,715.

The imports at Cape Breton were in proportion to those of Nova Scotia. exports to Great Britain, from Nova Scotia, consisted chiefly of-flour, £8,079; corn, £3,201; meal, £5,433; lumber and timber, £35,200. Fish was exported to the West India colonies to the value of £117,000; and lumber, £35,000. To the United States, the Nova Scotia colonists exported fish in 1847, to the value of £160,700; grindstones, £13,221, gypsum, £6,746; unrefined sugar, £8,668 ; firewood, £6,132; and coal, £12,000 To foreign states, they exported fish to the value of £30,000.

The grindstones exported amount to 1,500 tons—42,000 pieces. The value of the grind-

stones raised in Cumberland County, in 1847, was £13,221. The gypsum exported, 25,000 tons Coal exported from Nova Scotia, 75,000 chaldrons; and from Cape Breton, 32,000 chaldrons. Salt-springs exist in the neighbourhood of Mount Thom, in the County Cumberland, from which salt has been made. These springs are numerous in the eastern section of the province. Eight miles N. of the town of Pictou is a bed of copper ore, intermixed with majestic trees. which have been converted into coal, but still retain their natural form and external appearance, and in some instances, the vegetable fibres of the wood, impressions of the leaves, bark, and all those figures so common on the surface of the living plant. Sometimes the whole tree has been transformed into lignite; in other instances only a partial change has been effected, and the ancient herbage of a productive climate is now half stone, half coal, intermixed with green carbonate of copper, forming a beautiful efflorescence in their delicate crevices.

The Albion coal mines at Pictou, in Nova Scotia, yielded, in 1828, 4,467 chaldrons; in 1831, 8,345 chaldrons; in 1833, 19,890 chaldrons; and in 1847, 35,104 chaldrons; value £42,123. The strata is similar in

formation to those of the Staffordshire coalfields. The Sydney mines, at Cape Breton, yielded, in 1847, 26,061 chaldrons, Newcastle measure; value £37,528. The Bridgeport mines, 68 chaldrons, 18 bushels, Newcastle measure; value £98 12s. 2d. The Cape Breton coals are similar to those of

Newcastle, in England.

His late Royal Highness the Duke of York obtained from the crown in 1825, a lease for sixty years of all the mines and minerals of every description in Nova Scotia and in Cape Breton, excepting those contained in lands previously granted, where the crown had not reserved the minerals This right was subleased to the "General Mining Association," at a fixed rent of £3,000 per annum. The operations of this association commenced in the year 1827, and have hitherto been confined to the working of coal-mines and the discovery of iron ore. The coal-mines worked in Nova Scotia are those termed the Albion, on the banks of the East River, in the district of Pictou, distant eight and-a-half miles from the town of that name. A railroad has been constructed from the mines to the port of shipment, as the East River is not navigable for burthensome craft to within six miles of the mines The coal is raised from several shafts by the aid of steam and winding engines The establishment at the mines consists of about 200 persons, employed in the mines, the foundry, railroad, barges, brick-kilns, &c; and the town of New Glasgow owes its buth to the presence and operations of the General Mining Association It is right, however, to state, that some of the colonists complain, that the mineral wealth of the province has been granted to the creditors of the late Duke of York, and the riches which would have materially benefited their country, and contributed to their public revenue, are abstracted for the benefit of a few individuals. The General Mining Association have, however, as far as practicable, lessened the evil of the grant by the application of English money to the working of the mines. Its capital, £400,000, divided into 20,000 shares, of £20 each, has been applied to the operations in Nova Scotia.

The Report to her majesty's government, for 1847, contains the following account of the state of manufactures in the province ---

"The manufactures of Nova Scotia are, as yet, of an extremely simple and unpretending character. and other agricultural implements, buckets, fish-

Coarse cloths, or homespuns, woven by the wives and daughters of the peasantry, are made in all the settlements, and are generally worn by that class; the more affluent dressing in English broadcloth only on the Sabbath Some of these home fabrics are of hand-Sabbath some patterns Fulling-mills exist in the older townships, in which this cloth is thickened and dved Where these are too distant the dyeing is a simple household process. Sheep are kept on every farm, and supply the raw material Coarse flannel for under garments, bed linen, woollen blankets, and carpets are also made. Flax grows luxuriantly; but handspun and woven is not considered profitable, the British article finding its way into the province at prices so low. Power-looms are unknown here. Tanning, to the extent of the preservation of all the hides grown in the country, and of those occasionally imported from South America, is also practised. The yards are not extensive, except in the neighbourhood of the capital (in some of which steam power is used), and many farmers tan their own leather in hogsheads sunk by the road-side, or in pits of the simplest construction Leather is imported occasionally from Canada, and sheepskins and wool are exported to the United States

"Saw-mills are numerous, but the extensive and costly establishments, common to Canada and New Brunswick, do not exist in Nova Scotia, as we have not the pine forests to sustain them, but all the lumber required for the construction of buildings, and of ships and vessels for the supply of our own commerce or for exportation, is sawed within the country Pinc lumber is extensively shipped from the eastern ports to Newfoundland, from the western to the West In dies, forming a deck load for vessels carrying out fish Plank and deals are also manufactured for exportation to the mother country, and, of late, sleepers for railroads have been in some demand Occasional cargoes of ton timber are also shipped, but this branch of trade, never very profitable to individuals or advantageous to the country ere the forests had receded before the progress of cultivation, is less so now, and has been almost abandoned

Of iron manufactures for exportation, except stoves to some of the colonies, and chain cables to the United Forges, however, are found States, there are none in all the villages and hamlets, and are numerous in

the larger towns These supply iron-works for mills, ship-building, agricultural carriages and implements, and shoes for cattle Stoves are imported from the Carron works of Canada and the United States, and iron manufactures of all kinds are largely imported from the mother country The iron-mines of Nova Scotia are not worked, for want of capital An experiment was tried at Moose River some years ago, by

a company, whose skill and knowledge were not equal to their enterprise. The capital was sunk, and the work abandoned.

"Leather, to the extent of the whole quantity tanned in the country, is manufactured every year Little is ever exported, while some comes in from England, Canada, and the United States. Boots, shoes, saddlery, and harness, are made up in all the towns and villages, but the supply (of the quantity and at the prices to compete with imported articles) 15 not equal to the demand, England and the United States largely supplying the market, injuring it may

be, for a time, but ultimately stimulating and improving the domestic manufacture.

"Household furniture, carts, carriages, ploughs,

barrels, and boxes, are made in great quantities, and various manufactories of wood flourish in Nova Scotia, and yield profitable employment to those who

conduct these branches of business.

"Tobacco, confectionery, printing, and wrapping paper, hats, and some other articles are manufactured in the neighbourhood of Halifax, where are also several distilleries for the preparation of spirits from molasses. Bonnets of bleached grass, and hats of straw, are made in many of the rural districts. Buildings are of wood almost universally Some good stone and brick houses are to be seen in Halifax, and the other larger towns, but these form exceptions to the general rule. Stone houses carelessly built are apt to be damp in this climate; a prejudice against them is in consequence generally entertained, which, added to the low price of lumber, gives wood the preference, and may for the next 20 years. But, as wood becomes scarce, more permanent structures will take the place of those usually decaying, or hable to destruction by fire. Stone for building materials, abounds in Nova Scotia. Granite of the finest quality, on the south coast, is mexhaustible. Freestone is found all along the northern shore, and slate quite equal to that of Wales in the central region '

There are no means of obtaining correct returns with regard to the fisheries, as the fishermen are not bound to take out shipping papers, and very few of the small shallops are registered In 1837, the dry fish exported was 176,156 quintals; pickled fish, 47,693 barrels. In 1847, according to the Blue Book, the quantity of dry fish exported from Nova Scotia Proper was 224,859 quintals, value £78,600; pickled fish, 206,911 barrels, 82 tierces, 5,816 half barrels, and 4,848 kits, value £120,753; 2,089 boxes smoked Total for Nova herrings, value £1,506. Scotia, value £200,859. For Cape Breton, 56,312 quintals dry fish, value £24,419; 2,985 barrels mackerel, value £17,200; 335 barrels herrings, value £1,492; 335 barrels salmon, value £670; 12,399 barrels pickled fish, value £10,124; seal skins, £840; oil of all kinds. £8.300. Total. £63.045.

The official Report for 1847 states, that around the shores of the Basin of Mines and Bay of Fundy, great quantities of shad and bass are caught in wears, at every flux and reflux of the tide. The Basin of Annapolis has a fishery peculiar to itself, of small herrings caught in wears, which are smoked and packed in boxes. These are much prized, and find a ready sale in foreign markets.

The cod and haddock fisheries are actively prosecuted all along the southern coast; these fish are found in deep water very near the shores, but the principal catch is taken on the banks about ten miles off, the poorer fishermen rowing or sailing out in their whale-boats, and returning every night.

Small decked vessels are fitted out by those who are able to keep them, and these generally remain on the grounds till they have completed their lading. The Nova Scotians also participate in the Gulf and Labrador fisheries, and pay occasional visits to the banks and shores of Newfoundland. The export of cod-fish, in 1847, was \$13,822 quintals, valued at £125,442 sterling.

In spring the shoals of mackerel, making their way from the south to the north, and returning in the fall, glide along the coasts and headlands of Nova Scotia, and penetrate into the coves and inlets, where immense quantities of them are caught with seines, and hauled on shore; 500 barrels are by no means an uncommon draught, and 1,000 are sometimes taken. In the autumn of 1846, mackerel were taken in such abundance, that it was difficult to procure salt and barrels for their preservation. Mackerel are also taken in nets all around the shores

Herrings are caught at times in great quantities. The following return for 1847 will give an idea of the pickled fish trade, which is annually becoming of more importance, and which, were the markets of the United States thrown open to Nova Scotia, is capable of almost indefinite extension:—

From Nova Scotta Proper.—Alewives, 6,793 barrels, 31 kits; herrings, 22,043 barrels, 433 half barrels, 150 kegs, 353 thirds of barrels; mackerel, 186,406 barrels, 5,078 half barrels, 295 quarter barrels, 3,187 thirds of barrels; salmon, 388 tierces, 5,101 barrels, 305 half barrels, 413 thirds of barrels, 450 kits.

From Cape Breton.—32,919 barrels, valued at £29,486 sterling.

The attempts to prosecute the whale fishery have not yet assumed a permanent character, or been attended with success.

The Blue Book for 1847 states the number of ships built in Nova Scotia Proper at 221; tonnage, 25,927; and at Cape Breton, 31; tonnage, 3,521.

The vessels registered in the province in 1844 were—

	Under	50 Tons	50 Tons and upwards			
Nova Scotia . Cape Breton .	No 1,258 324	Tonnage 35,860 10,146	No 632 132	Tonnage 68,086 9,296		
Total	1,582	46,006	764	77,382		

Property annually created.—Adopting the

principles laid down relative to Canada (p. 155), it may be estimated that 300,000 inhabitants of Nova Scotia and Cape Breton ling—thus £125 currency = £100 sterling. require each for their daily support one shilling a-day, or about £18 a-year = bring currency into sterling deduct one-The property annually cre-£5,400,000. ated and not consumed, may average threepence a-day, or £4 10s. a-year = £1,350,000; England. total annually created about seven million sterling (£6,750,000).

Movable and Immovable Property -Land under regular cultivation about 400,000 acres -average value £10 per acre = £4,000,000, half cultivated and partly cleared, 600,000 acres, at £2 an acre = £1,200,000, uncleared, forest and wild land, 5,000,000 acres, at 5s. an acre = £1,250.000 Houses about 60,000, at £20 each = £1,200,000. Furniture, &c, about £20 for each house = Apparel and personal pro-£1,200,000. perty, each person, £4; for 300,000 inhabitants, £1,200,000. Manufactories, distilleries, &c, about £100,000. Government buildings, forts, churches, colleges, schools, gaols, &c., £1,000,000 Roads, canals, bridges, wharfs, dykes, &c, £2,000,000. Mines, quarries, forests, and fisheries. £5,000.000. Horses, £250,000; horned cattle, £800,000; sheep, £250,000, swine and poultry, £150,000. Ships and boats, £100,000. Merchandize and cash in hand, £1,000,000. Total estimated value of movable and immovable property in Nova Scotia and Cape Breton, £20,700,000.

Banks —Three corporate institutions, viz., Nova Scotia, and a Branch of the London Bank of British North America

Coins.—The Queen's duties are commonly paid in dollars at 4s. 2d. sterling, or doubloons at £3 4s. sterling each, or in British silver coin. The English shilling is by law equal to 1s. 3d. currency, the former value of the quarter dollar, which it has displaced, and the sovereign and the doubloon are made legal tenders at 25s. and £4 currency respectively, and the dollar at 5s. 21d. There are no provincial coins, except copper pence and halfpence. The amount of com in circulation cannot be ascertained.

Paper Money.—The notes of the Provincial Treasury in circulation on 31st December, 1847, were £47,974. The notes of the Bank of Nova Scotia in circulation, £50,000; notes of the Bank of British North America, £48,000; notes of the Halifax Banking Company, about £42,000; total paper currency, £187,974.

Accounts are kept in "Halifax currency." The pound currency is equal to 16s. ster-To reduce to currency add one-fourth; to

Weights and Measures.—The same as in

Course of Exchange in 1847.—Bills on her majesty's government at 30 days' sight, 14 per cent. Private bills at 60 days' sight. 13 per cent. Bills on the United States, 5 per cent. premium.

Average Prices of various produce in Nova Scotia in 1847 :- Wheat, per imperial bushel, 4s. 10d.; wheaten flour, per barrel of 196 lbs, 27s.; wheaten bread, per 2 lb. loaf, 3d.; horned cattle, £8 to £10; horses, £12 to £30; sheep, 10s to 20s.; goats, 16s. to 32s; swine, per lb., 3d. to $3\frac{1}{2}d$.; milk, the quart, 3d.; butter, fresh, 9d. to 10d per lb.; cheese, 6d. to 10d. per lb.; beef, 3d. to 6d. per lb.; mutton, 3d. to 6d. per lb, pork, 3d. to 4d per lb., rice per 14 lbs., 2s 10d; coffee, 7d. per lb.; tea, 1s. 8d to 2s. per lb.; sugar, per 16 lbs. 4s.; salt per bushel—coarse. 1s 7d; fine, 4s. per bushel; wine, 4s. to 10s. per gal; brandy, 8s. per gal.; rum, 3s. 6d. to 4s per gal., beer, per 5 gals, 4s. to 6s., tobacco, 10d per lb.; coal, 20s. to 25s per chaldron; mackerel, per barrel, No. 1, 20s. to 25s.; herrings, 11s. per barrel. The price of food is regulated partly by the state of the crop, and partly by the prices of breadstuffs in the neighbouring republic, whence the Halifax Banking Company, the Bank of the supplies which Nova Scotia requires are drawn The supply of fish also influences the price of other articles.

Wages for Labour —Domestics, per annum with board, £10 to £16; females, 10s. to 15s a month. Predial, 2s. 6d, to 3s. per day. Tradesmen, 4s to 6s. per day. These figures are from the "Blue Book" for 1847; they differ in some respects from the Report of the governor to Earl Grey, dated 18th October, 1848, which is as follows:-

"The price of labour varies slightly in Nova Scotia with the price of food 2s 9d, and 3s. 3d sterling per day, is paid generally by government on the public roads, upon which farmers, and farmers' sons, who have other pursuits, are chiefly employed The rates will almost always command labour in the towns and villages, in which, however, it sometimes falls to 2s. and 2s 9d sterling Farm servants receive £20 currency per annum, and their board; first-rate men in the harvest time will earn £2 18s sterling per month; captains of merchant vessels receive £8 sterling per month; sailors £3 4s sterling per month; mechanics are generally in demand, and can in ordinary seasons, earn from 4s to 8s sterling per day."

settlement.

Steam Conveyances. - The fine line of mail steam packets originated by the enterprizing Mr. Cunard, of Nova Scotia, leave Halifax weekly for England, the United States, and Bermuda. There are weekly steam-boats to Cape Breton and Newfound-There is also steam intercourse between Hahfax and St. John's, New Brunswick, including the intervening ports along the western shore; and between Windsor, Annapolis, and St. John's, on that side of the province washed by the Bay of Fundy. A steam-boat plies in the Bras d'Or Lake, Cape Breton, and occasionally there is another between Pictou and Prince Edward Lines of stage-coaches run thrice a-week from Halifax to Pictou and Annapolis.

Railroads.—One rail has been laid down in Nova Scotia for the conveyance of coals from the Pictou mines to the loading ground. There are several proposed routes for a trunk line of railway from Halifax to Quebec: 1st. From Halifax to Windsor, 45 miles; Annapolis, 85; to entrance of Bay of Fundy, thence by a steamer to St. John's in New Brunswick, 45; St. John's to Fredericton, 65, to Woodstock, 62, to Grand Falls, 71; to Rivière du Loup, 106, to Quebec, 110; total distance by the St. John River from Halifax to Quebec, 600 miles. This is a mixed route by railway and steam-boat. 2nd. By the Bay of Chaleurs route, 635 miles. 3rd. The "direct route" from Whitehaven Harbour near Canso, at the N.E. extremity of Nova Scotia, to Pictou, along the coast to Bay Verte, and through the centre of New Brunswick, 652 miles. This route combines the line through Nova Scotia from Halifax, and the direct route through the centre of New Brunswick, 595 miles. 5th. The Whitehaven route through Nova Scotia, with the Eastern or Bay Chaleurs route through New Brunswick to Quebec, 692 miles.

Admiral William Fitzwilliam Owen, who is considered the ablest surveyor in the royal navy, made a survey by order of government, of the proper port for the junction of sea and land communication between Great Britain and British North America, with reference to the projected railway from Nova Scotia to Canada. Having satisfied himself that the port of Canso was ineligible, although less than 2,000 miles from the W. coast of Ireland, the admiral, after examining other havens, gave his opinion in favour

Post Office.—Branches extend into every of Whitehaven, in lat. 45° 10' N., long. 61° 10′ W., 130 statute miles N. E. of Hali-The report of Admiral Owen contains the following account of Whitehaven:-

> "We found this haven to be a splendid and convenient port, as capacious as Halifax Harbour, between George's Island and Bedford Basin, and as safe and commodious, and its approaches safe, and under any circumstances easily attainable from the open sea, and within the extreme points of perfect shelter and security, not being more than a mile of pilotage water, but the shaft or channel to the haven itself, although well sheltered and safe, yet is very narrow in some places for a distance from one to two miles, according to the channel by which entered. Mr. Shortland's plan shows all the dangers we could discover

> "The haven finishes to the N. at Pleasant River, also very convenient, and navigable for two miles by vessels of any burden, and for small craft two miles further still to its head, which northern extremity is only four miles from the high road from Guysborough

and the port of Canso.

"Whitehaven Island, the outer point to seaward of the haven, is 140 feet high, and may be considered as the N. E extremity of Nova Scotia, and the nearest available point of this continent to the British Islands, although itself isolated The Acadian (French) settlement of Molasses Harbour is separated to the westward by a very narrow isthmus of mere beach from the western part of the haven; besides which there are not now more than eight or ten establishments around Whitehaven.

"Our inquiries relative to ice in winter were very satisfactory Pleasant River is generally frezen all down to the haven in January and February, and in severe winters the haven has been known to be entirely frozen over, but only once known to have happened to the southward of Fisherman's Island, and the nature of the coast and entrances precludes the possibility of packed or drift ice accumulating, so that the ingress and egress is always free and open

"It is not more or less subject to fogs than the whole of this south-eastern coast of Nova Scotia, which is all seriously inconvenienced by this impediment to comfortable navigation; and the soundings, with attention, may always give sufficient indication of approach, and the rocky ledges of the coast form an almost continued steep barrier of land."

And in another Report of 5th September, 1846, the distinguished hydrographer says:-

"Whitehaven is not only most conveniently situated -but is a splendid and most commodious port, whose immediate entiance and its harbour are never obstructed or incommoded by drift or packed ice. It has very great facilities of approach, and has only two outlying dangers or small rocks between the port and the open sea, and these only about half a mile from the shore; and in short its nautical facilities of attainment greatly exceed those of Halifax or any other point on the coast that I have seen. The upper part of its fine and beautiful harbour (like Bedford Basin and Halifax Harbour) in some winters fre ze over in part, but never so as to obstruct its external communications, its approach, or its perfect safety; and its configuration, as regards the proximate coasts, prevents the accumulation of drift or packed ice either to obstruct or incommode it.

"Its shores offer no impediments to railroad termini wherever convenient, and the vicinity is (in my judgment) perfectly practicable for rail communications. Comparing the two points nautically, Halifax
is a good, capacious, fine, safe harbour; so is Whitehaven, and nothing that I know inferior to Halifax.
In clear weather, by night or by day, both are equally
available, and equally safe and easy of approach; so
that the only circumstance still open to comparison is
in the too common case, that at the time when
entrance is sought into them respectively all the points
and the ship herself may be enveloped in a dense
fog, and possibly her own jib-boom end not visible,
the most perplexing and appalling case in precise navigation to seamen. In case of fog, the atainment of Halifax harbour requires 20 miles of
pilotage navigation; for Whitehaven, never more
than three or four, and the last is also more surely
beaconed."

Major Robinson, the engineer entrusted with the survey of the line, gives the preference to Halifax for a sea-coast terminus.

The total distance from Halifax to Quebec for any line of railway will be about 635 miles, which at £7,000 per mile (a low estimate) will cost £4,445,000—add one-tenth for contingencies, £444,500=£4,889,500, or in round numbers the proposed trunk line would cost about £5,000,000 sterling.

Along the proposed line of railway from

Halifax to Quebec there are millions of acres of good productive land, only waiting for the men necessary to cultivate them. The following synopsis shows approximately the quantities of ungranted land in the counties through which it is proposed to run the railway between Halifax and Quebec:—

In Nova Scotia: Halifax County, 780,000 acres; in Colchester, 120,000; Cumberland,

180,000 = 1,080,000 acres.

In New Brunswick Westmoreland County, 301,000; Kent, 640,000; Northumberland, 1,993,000; Gloucester, 704,000; Restigouche,

1,109,000 = 4,747,000 acres.

In Canada. Bonaventure, 2,000,000; Rimouski, 5,000,000; Kamouraska, 500,000; L'Islet, 600,000; Bellechasse, 500,000 = 8,000,000. The grand total of acres in the three provinces amounts to 14,429,000. The land for the railway would require to be purchased in Nova Scotia for nearly its whole course, and in Canada for 110 miles If a considerable portion of the ungranted land were given to the railway projectors it would facilitate the operation.

CHAPTER IV.

HISTORY, TOPOGRAPHY, GEOLOGY, MINERALOGY, AND PRODUCTIONS OF CAPE BRETON.

This singular and valuable island, although included under the same government as Nova Scotia, is of sufficient importance to require a brief separate description. It hes between 45° 27' and 47° 5' N. lat (including Madame, Scatari, Bouladrie, St Paul's, and other minor islands), and between 59° 38' and 61° 50' W. long.; its extreme length from NE. to S.W. being about 100 miles, and its extreme breadth from SE. to NW. about 80 miles. It is separated from Nova Scotia by St. George's Bay, and the narrow channel, called the Gut of Canso or Canseau, which in one place is only a mile It comprises an area of about 2,000,000 acres, exclusive of the surface covered by its lakes and rivers. In shape it is somewhat triangular, its south and southeastern shore forming one side, its western shore (facing Nova Scotia and Prince Ed-

ward Island) another, and its eastern shore the third, the two last terminating almost in a point at Cape North, which, with Cape Ray, in Newfoundland, commands the only entrance to the Gulf of St. Lawrence, except by the circuitous route of the Straits of Belleisle The distance between them is about 50 miles.

HISTORY —The island was discovered by Cabot, but what name he bestowed upon it does not appear. Verazani subsequently visited it, and called it Isle du Cap, which name was, in 1713, changed by the French to Isle Royale. Who gave the island the name of Breton is very uncertain—most probably some Frenchmen of Brittany in remembrance of home. It remained uninhabited until 1714, when a few French fishermen from Nova Scotia and Newfoundland took possession of its shores, selecting

fish or forming small gardens. In 1715, spirit. Louis XIV., who had been long contending West Indies, and these considerations, toge- was not to be resisted The Acadians were also urged to join part more than repaid by the lucrative fisheries. quintals of scale-fish, being annually exported the Indians to hostilities against the English,

the portions most adapted for drying cod- to assist them in quelling the aggressive

Matters were in this position when war with the united powers of Europe, anxious was declared between France and England, to detach queen Anne from that formidable on the 20th March, 1744. The news or alliance, offered to surrender part of the this event did not reach Nova Scotia until French possessions in America, and even- some time after it had been conveyed to tually, by the treaty of Utrecht, the French Cape Breton by a fast-sailing vessel, desrelinquished all excepting Canada, Cape patched for the purpose, but bearing instruc-Breton and Prince Edward (then called St tions to the governor not to attempt the John's) Island. The position of Cape Breton conquest of any post in Nova Scotia until with regard to the navigation of the St. Law- further orders, as the noble fortifications of rence, ensured to the French free communi- Louisburg were yet unfinished, and known cation with Canada, while its fine harbours to be insufficiently garrisoned. But the fitted it for the depôt of their trade with the temptation of taking the English by surprise Du Quesnel took ther with its valuable fisheries, induced its upon himself the responsibility of disobeying speedy colonization On the SE coast of orders, and hastily fitted out a small armathe island were laid the foundations of a town ment, which gained possession of Canso, and two miles and-a-half in circumference, which destroyed its defences. The French then was called Louisburg in honour of the king proceeded to lay siege to Annapolis, but of France. The fortifications were not com- were twice defeated, notwithstanding the menced until 1720. A governor and heu-dilapidated state of the fortifications, by the tenant-governor were appointed The Indians aid of a reinforcement from New England, of Nova Scotia were solicited to emigrate to with whom the Indians of Passamaquoddy, Cape Breton, which many of them actually Penobscot, Pigwogat, and some others, took Shirley, governor of New England, their countrymen, but as no equivalent was considering that the best way of checking offered to them for the property which they the active proceedings of the enemy, would must have necessarily abandoned, they pre- be to carry the war into his own territory, ferred remaining where they were. Mcan- proposed to the council to atempt the rewhile the French government spared no duction of Louisburg. How wild and imexpense upon the settlement; the outlay on practicable this scheme must have at first it is stated to have exceeded thirty million appeared, may be easily conjectured from livres, but this large sum must have been the following description of the place, for which I am greatly indebted to the graphic 1,800,000 quintals of cod-fish, and 3,000,000 account of Mr. Halburton. Louisburg was two miles and-a-half in circumference, and The French were not long established in Cape entirely encompassed by a rampart of stone Breton before they commenced instigating from 30 to 36 feet high, and a ditch 80 feet wide, with the exception of a space of 200 and so successfully, that a large fishing post yards near the sea, which was enclosed by a at Canso was twice taken by assault and pil- dyke and a line of picquets. The water in laged. The governor of Nova Scotia vainly this place was shallow, and numerous reefs appealed to the governor of Cape Breton, rendered it inaccessible to shipping, while it urging the atrocity of such outrages in a received an additional protection from the time of peace, and complaining of the encou- side fire of the bastions, of which there were ragement given to the perpetrators by the six, and eight batteries, containing embrapeople of Louisburg, but he received only sures for 148 cannon, and 16 mortars, but the unsatisfactory and evasive answer, "that of which only 45 were mounted. On an the Indians were an independent people; island at the entrance of the harbour was and that, if there were any French agents planted a battery of 30 cannon, carrying among them, they were the neutrals of Nova 28-pound shot; and at the bottom of the Scotia, and not subjects of Cape Breton." harbour was the grand or royal battery of The Indians, encouraged by this tacit sup- 28 cannon, 42-pounders, and two 18-poundport, became more and more aggressive; and ers. The entrance to the town was at the the colonists of Nova Scotia were compelled west gate over a drawbridge, near which to have recourse to those of Massachusetts was a circular battery, mounting 16 guns,

of 14-pounds shot. Governor Shirlev had perandum—Christo duce." the air of a crusade.

Previous to the departure of the fleet a conceived the idea of attacking this place despatch was sent to Commodore Warren. soon after the capture of Canso, and the who was on the West India station, informsame autumn had solicited the assistance of ing him of the contemplated attack on Louisthe British ministry, supposing that it might burg, and soliciting his co-operation, which be surprised, if an attempt was made early Warren refused, on the plea that he had in the spring, before the arrival of succours received no orders on the subject, the expefrom France; he communicated his plan, dition being wholly a provincial affair, un-without waiting for answers from England, dertaken without the assent, and, perhaps, in his dispatches to the other colonies, under without the knowledge of the home governan oath of secrecy. Wild and impracticable ment. This was a severe disappointment to as this scheme appeared to all prudent men, governor Shirley, but being determined to it was natural to suppose that it would meet make the attempt at all hazards, he concealed with much opposition, and it was accordingly the information from the troops, and on the rejected: but, upon reconsideration, it was 4th of April they embarked for Canso, where carried by a majority of a single voice, they arrived in safety; but were detained Circulars were immediately addressed to the three weeks, waiting the dissolution of the colonies, as far south as Pennsylvania, ice, with which the coast of Cape Breton requesting their assistance, and that an was environed. After Commodore Warren embargo might be laid on all their ports. had returned an answer to Governor Shir-The New England colonies were, however, ley, he received instructions from England, alone concerned in this expedition. The founded on the communications which the forces furnished by Massachusetts consisted latter had made on the subject, by which of upwards of 3,200 men, aided by 500 from he was ordered to proceed directly to North Connecticut, and 300 from New Hampshire; America, and concert measures for the benthe contingent from Rhode Island of 300 efit of his Majesty's service. Hearing that did not arrive until too late to be of service. the fleet had sailed, he steered direct for Ten vessels, of which the largest carried Canso, and after a short consultation with only 20 guns, with a few armed sloops from General Pepperal, he proceeded to cruise Connecticut and Rhode Island, constituted before Louisburg, whither he was soon folthe whole naval force. The command of lowed by the fleet and army, which arrived the expedition was given to William Pep- on the 13th of April, in Chaparogue Bay. peral, a gentleman who, from being extensively concerned in trade, but yet more from intelligence of the intended attack, for his unblemished character and affable man- although the English had been detained ners, had great influence both in Massa- three weeks at Canso, the French were, chusetts and New Hampshire, where he was until the moment of their arrival, ignorant very generally known. This popularity was of their approach. Preparations were imabsolutely necessary to the commander of mediately made for landing the men, which an army of volunteers—his own countrymen, was effected without much opposition, and who were to leave their families and occu- the enemy driven into the town. While pations, and engage in a hazardous enter- the troops were disembarking, the French prise, to which they were chiefly incited by burned all the houses in the neighbourhood patriotism and religious enthusiasm. In of the works, which might serve as a cover waging war against the Papists, many, to the English, and sunk some vessels in the doubtless, believed themselves to be doing harbour to obstruct the entrance of the God service, and every means was used by fleet. The first object was to invest the city. their leaders to strengthen this opinion. Lieutenant-colonel Vaughan conducted the The famous George Whitfield (then an first column through the woods within sight itinerant preacher in New England) was of Louisburg, and saluted the city with three presented by Pepperal with the colours, and cheers. At the head of a detachment, comhe returned them with the motto, "nil desposed chiefly of New Hampshire troops, he Many of his marched in the night to the N.E. part of followers enlisted: one of them, a chaplain, the harbour, where he burned the warecarried a hatchet on his shoulder, for the houses containing the naval stores, and purpose of demolishing the images in the staved a large quantity of wine and brandy. French churches; and the expedition wore The smoke of the fire, driven by the wind into the Grand Battery, so terrified the

French that they abandoned it, and spiking men, killed by the enemy and other accitheir guns retired to the city. The next dental causes, and about 30 from sickness; morning Vaughan took possession of the while the French were supposed to have lost deserted battery, and having drilled the 300 men killed within the walls. During cannon left by the enemy, which consisted the 49 days the siege lasted, the weather chiefly of 42 pounders, turned them with was remarkably fine for the season of the good effect on the city, within which almost year; but the day after the surrender, it every shot lodged, while several fell on the became foul, and rain fell incessantly for ten roof of the citadel. The troops were employed for 14 successive nights in drawing cannon from the landing-place to the camps, through a morass. To effect this they were troops, 1,500 of whom were suffering from obliged to construct sledges, as the ground dysentery. was too soft to admit of the use of wheels: they were deficient. fully demonstrated.

days: had the change occurred at an earlier period, it must, in all human probability, have proved fatal to a large number of the

Not the least singular circumstance while the men, with straps on their shoul- connected with this gallant achievement, ders, and sinking to their knees in mud, was the fact that the plan for the reduction of performed labour requiring the strength of this skilfully constructed fortress, was drawn owen; and which could only be executed in up by a lawyer, and executed by a body of the night or during a foggy day, the morass husbandmen and merchants; animated indeed being within view of the town and within by patriotic zeal, but wholly unpractised in reach of its guns. On the 7th of May a the art of war. The fortuitous concurrence summons was sent to Duchambon, who re- of events did not, as Mr. Haliburton justly fused to surrender, and the siege was pressed remarks, detract from the ment of the man on with great vigour and spirit. By the who planned, or of the people who effected, 28th of the month the Provincials had this remarkable conquest; neither did it erected five fascine batteries, mounted with lessen the benefit thereby conferred on Eng-16 pieces of cannon and several mortars, land. Cape Breton was useful to France; and which destroyed the western gate, and made in many respects Louisburg had realised the a perceptible impression on the circular hopes of those who projected its establishbattery of the enemy. The fortifications on ment. It formed a commodious station for the island, however, had been so judiciously the fisheries, which were gradually becoming placed, and the artillery so well served, that a source of naval power as well as wealth to they made five unsuccessful attacks upon it, France; and its central position, between in the last of which they lost 189 men. In the principal fishing stations of the English the mean time commodore Warren cap- at Newfoundland and Canso, enabled it to tured the Vigilant, a French 74, having a check the trade of both. Louisburg was the complement of 560 men, and a large quan- French Dunkirk of America, whence privatity of military stores. This prize was of teers were fitted out to infest the coast of the utmost importance, it added to the British plantations, and to which prizes naval force of the English, and furnished were conveyed for safety. In the November them with a variety of supplies in which preceding the capture of Louisburg, the Preparations were grand French fleet sailed from thence, conmaking for a general assault, when Du-sisting of three men-of-war, six West India chambon determined to surrender; and ships, 31 other ships, nine brigantines, five accordingly, on the 16th of June, he capitus snows, and two schooners. The French Upon entering the fortress and West India fleets found a secure harviewing its strength, and the excellence and bour there, and the supplies of fish and variety of its means of defence, the im- lumber were carried with convenience from practicability of carrying it by assault was thence to the sugar colonies; besides which, The garrison, which it must be remembered Cape Breton comcontained 650 veteran troops, and 1,310 manded the entrance into the gulf of St. militia, with the crew of the Vigilant, and Lawrence, and consequently the navigation the principal inhabitants of the city, in all to and from the favourite colony of France. 4,130, pledged themselves not to bear arms The existing state of Nova Scotia must be for twelve months against Great Britain or noted. An attempt had been made by the her allies; and being embarked on board French to recover the province; the taking 14 cartel ships, were transported to Roch- of Cape Breton frustrated the execution of fort. The New England forces lost 101 this plan, and gave the English an additional bridle over this half-revolting and disturbed at the distance of a mile from the town, and disastrous issue has been already related to the safety and tranquillity of their own territory. In 1757, colonial rivalry between England and France had reached its highest point; and it was resolved again to attempt

the capture of Cape Breton. The state of Louisburg at this time appears to have been very flourishing. Commercial History of the Islands of Cape Breton and St. John, by an impartial Frenchman," of which an English translation was published in London in 1761, gives the following account of the town, immediately before its capture by the English in 1758, by an eye-witness .—" It was built on a neck of land on the S.E. part of the island, and was nearly a league in circumspacious quay; wharfs projecting into the sea, convenient for shipping; fortifications consisting of two bastions and two demibastions, three gates; and near the principal fort and citadel, a handsome parade. The stone buildings for the use of the troops and officers of the French government were constructed with materials brought from Europe. The port, about three miles in length, and upwards of a mile in its smallest breadth, with a carrening and wintering ground for ships, was protected by a battery level with the surface of the water, consisting of 36

country. The news of this conquest being which it commanded, and also the bottom transmitted to England, general Pepperal of the bay, contained 30 pieces of cannon, and commodore Warren were preferred to viz., twenty-eight 36-pounders, and two 18the dignity of Baronets of Great Britain, pounders. The population of the town, exand congratulatory addresses were presented clusive of the troops, was about 5,000: its to the king, upon the success of his majesty's administration was confided to a governor and Reinforcements of men, stores, and supreme council; there were courts of law provisions having arrived at Louisburg, it and of admiralty; a general hospital for was determined, in a council of war to main-soldiers and sailors, served by brothers of tain the place and repair the breaches, the charitable fraternity, and the 'nuns of Extreme mortification was felt by the French Louisburg' superintended the education of court at this unexpected event; and an young girls." The inhabitants of Louisburg expedition on a very unusual scale was fitted and the other settlers in Cape Breton, of out for the recovery of Cape Breton and the which the principal places were Port conquest of Nova Scotia, whose unsuccessful Dauphin within the Bras d'Or, St. Anns, Spanish Bay (now Sydney), Port Toulouse in the history of the latter place. At the (St Peters), Arichat, Petit de Grat, and peace of Aix la Chapelle in 1749, Cape Bre-Rivier, were chiefly engaged in the fisheries, ton was restored to France, greatly to the which must have been carried on to a great surprise and grief of the brave colonists, who extent. Mr. M'Gregor says, that the trade had so valuantly obtained it, and who, with there employed near 600 yessels, exclusive much reason, considered its position essential of boats, and between 27,000 and 28,000 seamen: if this were the case, it is not surprising that the French ministry paid such attention to Cape Breton, and considered the fishery a more valuable source of wealth and power to France than even the mines of Mexico and Peru would have been parliament of England also, by the energetic publication entitled, "Genuine Letters and appeals of Mr. Pitt, had been fully awakened Memoirs relative to the National, Civil, and to the mistake that had previously been made in relinquishing Louisburg, not only from its importance, which had been greatly undervalued, but because no course of policy which gave to the colonists a just cause of dissatisfaction with the mother country, could be justifiable, however weighty the considerations which dictated it. A large body of men were raised in England in aid of the colonists. Halifax was fixed upon for the ference, with wide and regular streets, a rendezvous of the British land and sea forces. Admiral Holborne arrived at Chebucto harhour in the middle of July with a powerful squadron, and 5,000 British troops under the command of Viscount Howe, and was soon after joined by Lord Loudon with a corps of 6,000 men from New York; but the season was considered too far advanced for the enterprise, and it was resolved to Admiral defer it to the ensuing spring. Holborne sailed for Louisburg, with 15 ships of the line, 4 frigates, and a fire-ship, for the purpose of reconnoitring the enemy. On the 20th of August he appeared before 24 pounders; the harbour was also defended the harbour, and saw the French admiral, by a Cavalier, with 12 embrasures, called by La Motte, make the signal to unmoor; but the name of Maurepas. The royal battery, being greatly inferior in strength to the

gagement, and therefore returned to Halifax. About the middle of September, having line, he again appeared before Louisbourg, and endeavoured to draw the enemy to a La Motte, however, in his turn, was too prudent to hazard an engagement, French colonies to the attacks of the Eng-Before the arrival of the reinforcement, the British fleet at Halifax consisted of the following ships:-

Name of Ship	No of Men	No of Guns	Name of Ship	No of Men	No of Guns
Newark . Invincible Grafton . Terrible Northumberland	700 700 590 630 520	80 74 68 74 68	Ferrit Sloop Success Port Mahon Nightingale Kennington	120 150 150 150 150	16 22 22 22 22 20
Captain Bedford Orford Nassau Sunderland Defiance Libury Kingston Windsor Sutherland	580 480 520 480 400 400 400 400 350 306 160	68 64 68 64 64 64 64 65 54 50	Elphingham Furnace boom Dutto Vulture sloop Hunter Speedwell Hawke Gibraltar's Prize Jamaica Lightning, fire- ship	150 100 100 100 100 100 90	20 16 16 14 14 12 12 12 12

Total, 10,200 men, 1,350 guns

The squadron continued cruising before the harbour of Louisburg until the 25th. when they were overtaken by a terrible storm, in twelve hours they were driven within two miles of the breakers, on the coast of Cape Breton, when the wind providentially shifted, and saved the whole squadron from inevitable destruction, except one vessel shattered condition.

enemy, he did not choose to risk an en- the colonists of his determination to send out a large force to co-operate with them by sea and by land, against the French, and received a reinforcement of four ships of the urging them to raise as large bodies of men as the number of inhabitants in their respective governments would permit. Provincials displayed, upon this occasion, their usual energy, and were ready to take the loss of which must have exposed all the the field early in May; previously to which Admiral Boscawen arrived at Halifax with a formidable fleet and a powerful army. under general Amherst. The whole armament, consisting of 151 sail, and 14,000 men, took their departure from Nova Scotia on the 28th of May, and on the 2nd of June, 1758, anchored in the Bay of Gabarus, about seven miles to the westward of Louisburg, whose garrison, commanded by Chevaluer Drucor, consisted of 2,500 regular troops, 300 militia, formed of the inhabitants, and who, towards the end of the siege, were reinforced by 350 Canadians and Indians. The harbour was secured by six ships of the line and five frigates, (the Prudent, Entreprenant, each 74; the Capricieux, Celebre, and Bienfaisant, of 64 guns; the Apollo, of 50, the Chevre, Biche, Fidele, Diana, and Echo, frigates,) three of which they sunk across the entrance, in order to render it inaccessible to the English shipping. Six days elapsed before the troops could be disembarked, on account of the heavy surf which broke with prodigious violence on the whole shore: but on the seventh, the agitation of the water having partly subsided, the troops were distributed in three divisions. and ordered to effect a landing. The right and centre, under the command of governor which was lost on the rocks, and about half Lawrence and general Whitmore, received of her crew perished. Eleven ships were dis- instructions to make a show of landing, to masted, others threw their guns overboard, distract the attention of the enemy, while and the whole returned to England in a the real attempt was made in another quarter by general Wolfe. The French reserved The successes of the French during this their fire until the boats had nearly reached campaign left the affairs of the British North the shore, when they opened a tremendous American colonies in a gloomy state. The discharge of cannon and musketry, which, former had obtained full possession of Lakes aided by the surf, overset and sunk many of Champlain and George, and the command the boats. The men, encouraged in all their of those which connect the waters of the difficulties by the example, spirit, and con-St Lawrence with the waters of the Mis- duct of their gallant commanders, gained sissippi, and the undisturbed possession of the beach at the Creek of Cormoran, and all the country west of the Alleghany moun- compelled the enemy to retire to the town. tains. But the appointment of Mr. Pitt, As soon as the stores and artillery were during the autumn, to the premiership of landed, which was not effected without great the new administration, gave cheering hopes difficulty, General Wolfe was detached, with to all parties, both at home and in America. 2,000 men, to seize a post occupied by the Immediately after taking office he wrote a enemy, at the Light-house Point, from which circular letter to all the colonies, assuring the ships in the harbour, and fortifications

but cautious vigour. The Bizarre and the Comet escaped the vigilance of the squadron before the commencement of the siege, and the Echo attempted to follow their example, but was captured soon after she left the harbour. On the 21st of July, one of the largest of the French ships blew up with an awful explosion: the fire was communicated to two others, both of which were consumed quent acquisition of Canada. in a short time to the water's edge. into the harbour, to make an attempt on two ships of the line, which still remained in the basin—the Prudent, a 74-gun ship, and the Bienfaisant, of 64 guns. The former having been run aground, was destroyed, and the latter was towed past the batternes in triumph, with the inconsiderable loss of seven men killed, and nine wounded. This gallant exploit placed the English in complete possession of the harbour, and several important breaches being made in the works, the fortress was no longer deemed defensible, and the governor offered to capitulate. The terms proposed by him were refused, and it was required that the garrison should surrender prisoners of war, or sustain an assault by sea and land. The humiliating conditions, at first rejected, were afterwards agreed to; and on the 26th of July, 1758, the Chevalier Drucor signed the articles of capitulation.

Thus, at the expense of about 400 men, killed and wounded, the English obtained possession of the important island of Cape Breton, and the strong town of Louisburg, in which they found 231 pieces of cannon, 18 mortars, and a considerable quantity of stores and ammunition. The merchants and inhabitants were sent to France in English vessels, but the garrison, together with lantic on the opposite coast. The portions the sea officers, marines, and mariners, of Cape Breton thus separated strikingly amounting in all to 5,637 men, were transmitted to England. The loss of Louisburg being high, bold, and steep, with dangerous was the more severely felt by the French coasts, whose rocky and often perpendicular king, from its being attended with the des- cliffs have a grand but forbidding aspect truction of so many line-of-battle ships and which is rarely relieved by harbours; while frigates. Despatches with the particulars of that on the S. is low, undulating, and interthis glorious victory were immediately sent sected by numerous streams, but gradually

in the town, might be greatly annoyed. On to England by Captain Amherst (brother to his approach it was abandoned, and several the Commander-in-chief), and accompanied very strong batteries were erected there. by eleven pair of the enemy's colours. These The fire from this place, by the 25th, com- were, by his Majesty's orders, carried in pletely silenced the island battery, which joyful parade, escorted by detachments of was immediately opposed to it. In the horse and foot guards, with kettle drums interim, the besieged made several sallies and trumpets, from the palace of Kensington with very little effect, while the approaches to St. Paul's Cathedral, where they were to the town were conducted with resolute deposited as trophies, during a discharge of cannon and other expressions of triumph and exultation. Public rejoicings for the conquest of Louisburg were manifested throughout the British empire; congratulatory addresses from numerous places were sent to the king, and the enthusiastic exultation expressed and excited by the occasion, probably contributed materially to the subse-

The British government fearing Louisburg ral Boscawen then sent 600 men in boats might again fall into the hands of the French, dismantled the fortifications, which have ever since remained in ruins; the island was unaccountably neglected by England, and it was not until after the American revolution, when several American loyalists settled in the colony, that it was again brought into notice, separated from the government of Nova Scotia, and erected into a distinct colony. Sydney, its present capital, was then founded. Immigration from the Highlands of Scotland commenced in 1800, and added much to its population, which has been further increased by their countrymen of late years. In 1820, Cape Breton was re-annexed to Nova Scotia, of which it formed a county, with the privilege of sending two members to the House of Assembly, at Halifax. number of members has been increased to A portion of the inhabitants have been seeking for several years the repeal of the Legislative Union with Nova Scotia: but it is a question, the justice or expediency of which it is not necessary here to discuss.

> Topography —Cape Breton is divided into two peninsulas by the great inlet of the sea termed Bras d'Or, or Bras d'Or Lake, which ramifies in the most singular and romantic manner throughout the island, and at one point approaches within a mile of the Atcontrast with each other, that on the N.

island called Bouladrie. called Little Bras d'Or, is about 23 miles Bay by a low barren peninsula. distance of 40 miles from the main ocean. of Louisburg.

eries, the rich coal mines on its shore, the their strange folds.

rises from the interior shore of the Bras fertile agricultural tracts in its vicinity, tod'Or, until it presents abrupt cliffs towards gether with its noble harbour, led its founthe ocean. The highest ridges in this di- ders to anticipate its rapidly becoming a vision are estimated at from 600 to 800 feet, place of great importance. Why its present while the altitude of those in the northern state falls so far short of their expectations, division is much greater. The loftiest point, is difficult to conceive; perhaps, chiefly, Cape Enfumé (Smoky Cape), is estimated from its many advantages being too little by Mr. M'Gregor at 1,800 feet above the known by the class most likely to avail level of the sea. The Bras d'Or appears themselves of them. A promising settleto have been caused by an earthquake, or ment, called North Sydney, near the shipsome other convulsion of nature, which, by ping place of the coal mines, has lately separating the land, made way for the rrsprung up. From Sydney to Louisburg ruption of the ocean far beyond its previous the shore presents frowning headlands, low boundary. It enters Cape Breton from the beaches, bays, rivers, and a few islands. The Atlantic, between Sydney and St. Ann's chiffs along the whole coast, from the Bras Bay, by two channels, N. and S. of an d'Or to Cow Bay, are streaked with seams The S. passage, of coal. Cow Bay is separated from Miray long, and from a quarter to three miles wide, opposite the latter, a few miles off, lies Scabut rendered unnavigable for large vessels tan Island, for which vessels bound from by a bar at its mouth. The N. passage, England to the North American colomes, Great Bras d'Or, is 25 miles long, 2 or usually shape their course. The island is 3 wide, with a free navigation, and above sterile, but forms a good fishing station. 60 fathoms soundings. The Bras d'Or itself A lighthouse recently erected, was greatly is the union of these two branches, which needed in its vicinity, to avert the fearful form the great lake in the centre of the loss of life and property formerly of frequent island, with several fine bays, where the occurrence Louisburg Harbour in lat. 45° timber ships for England usually load, at a 54', long. 59° 52', has an entrance about a quarter of a mile wide between some small The length of this noble sea-water lake 18 rocky islets, with a narrow passage near the about 50 miles, its greatest width 20, with a W. point, on which Louisburg stood. The depth varying from 12 to 60 fathoms, every- basin within is three miles long by one wide. where securely navigable, and by reason of The town itself is so reduced to ruins that, its numerous bays and inlets affording the at first sight, the outlines of the chief buildbenefit of inland navigation to almost every ings are scarcely discernible, and the once farm in the country. Several fresh-water formidable batteries blasted by gunpowder, lakes exist in both divisions, the largest are present a striking evidence of past grandeur. Lake Marguerite, in the N. division, which The strong and capacious magazines, where is about 40 miles in circumference; the immense stores and munitions of war were Grand River and Miray Lakes in the S., formerly deposited, are nearly entire; but the latter, together with its river intersect- hidden by the accumulation of earth and ing the island on its S. E. coast for 30 miles, turf, they are trodden over by flocks of in the rear of the site of the ancient fortress sheep, who feed in peace over the last resting-place of many a gallant Frenchman and Sydney, the capital of Cape Breton, in patriotic Briton, while near the harbour, lat. 46° 18', long. 60° 31', is beautifully beneath the "clear cold wave," may be seen situated at the head of a fine bay, on a nar-the vast sunken ships of war, whose very row but somewhat elevated tongue of land, bulk indicates the power enjoyed by the stretching into the extensive inlet which Gallic nation, ere England became mistress forms its secure and capacious harbour. of her colonies on the shores of the western The town is small but compactly built, and world. Desolation now sits with a ghastly contains the usual number of public build- smile around the once formidable bastionsings, and about 80 houses. An academy all is silent except the loud reverberating was commenced, and £600 were expended ocean, as it rolls its tremendous surges along upon it, but it remains unfinished, and is the rocky beach, or the bleating of the apparently going to ruin. The excellent scattered sheep, as, with tinkling bells, position of Sydney with regard to the fish- they return in the dusky solitude of eve, to

Mr. M'Gregor, who visited the spot, well pitous, particularly near Cape Mabou, an cultivation.

around Grand River and the lakes connected with it, is said to be excellent considerable portion has been settled by Grand River to the Gut of Canso is broken and indented with numerous small coves and harbours. The land is good, and occupied by several thriving Acadian settlements, but the principal employment of the inhab-

itants is fishing.

Arichat, the second shire town in Cape Breton, is situated on the island of Madame, light. St. Paul's is about a mile in length, which lies near the south entrance of the Gut of Canso, opposite Cranberry Island, on which there is a light-house, and is divided from Cape Breton by a narrow strait, called Lennox Channel. The town is situated on a safe and commodious harbour, and has long had considerable trade with the Jersey merchants, who export fish from thence to Europe and the West Indies. Its population and commercial importance are rapidly increasing. It sends a representative to the House of Assembly at Halifax. The island is about 16 miles long by five broad is deeply indented, and has some good soil especially round the lakes in the interior The Gut of Canso has been already noticed in the topography of Nova Scotia. It is bordered on the Cape Breton shore, by a four miles inland. The north-west coast of Cape Breton, from the Gut of Canso to Port Hood, a distance of 18 miles, is well situated the sea, houses may be observed through the summits of the hills and mountains. Port Hood is an excellent harbour, fit for the largest-sized vessels. It is the third shire town in the island, and has a consid erable export of cattle to Newfoundland Beyond it the cliff becomes almost preci

describes the melancholy contrast formed by abrupt and lofty headland, where there is a the past and present state of Louisburg. harbour for small vessels. The coast assumes The inhabitants along the coast are chiefly the appearance of a bold mountainous am-Acadian French fishermen, and it is fre- phitheatre, but the steeps are successfully quented principally by Jersey and Guernsey cultivated by the settlers, who are chiefly people. Beyond Louisburg is the deep Bay Highlanders, mixed with some Irish, and of Gabarus, on which is a settlement of American loyalists. About 50 miles north American loyalists: from thence to St. of Port Hood, the Marguerite, or Salmon, a Esprit the coast is naked and rocky, with considerable river, flowing from a large lake red earthy banks, and the land for some which lies between the Gulf Shore and the distance inland is destitute of timber, and, Bras d'Or, falls into the sea. The land on with few exceptions, barren and unfit for both sides of this river, for several miles, and along the coast northward for 16 miles. At St. Esprit the country improves: that is occupied entirely by Acadians, who, be sides employing themselves actively in fishing. cultivate pastoral and agricultural pursuits.

At Chetican, the Jersey merchants have emigrants from Scotland. The shore from a fishing station, and from thence to Cape North (the extremity of the island) an ironbound coast presents its frowning front to the mariner. About ten miles from Cape North is the island, or rather rock, called St. Paul, on which two light-houses have been recently erected. On the N.E. end is a fixed light; on the S.W. end a flash and three quarters of a mile in breadth, and being in a direct line with Cape Ray, in Newfoundland, it fearfully endangered the navigation of the principal entrance to the Gulf of St Lawrence The water is deep close to the rocks · thick fogs prevail in its immediate vicinity, and, combined with strong conflicting currents, have wrecked many a gallant vessel. Human bones are to be seen bleaching on the rocks, and massive anchors he beneath the waters year (1833) here and at Scatari, four ships, four brigs, and two schooners, containing upwards of 600 souls, were lost. Aspey Bay, (on which is a thriving settlement), and several other bays line the coast, down to Cape Enfumé The shore then bends southward and eastward for twenty miles to St. dense colony of Highlanders, reaching about Anne's Bay, which, after narrowing to a strait very narrow, again expands into a capacious haven eight miles in length, from one to three in breadth, secured by high and thickly inhabited; and, looking from lands from all winds, and extremely beautiful from its numerous coves and creeks, openings in the forests, reaching almost to and the bold, yet fertile country, which surrounds it.

> The French at first made their principal station under the name of Port Dauphin. but they afterwards abandoned it in favour of Louisburg; and it was almost deserted until about 30 years ago, when a Scottish

colony planted themselves in it, and are now the Isle of Madame. Breton is yet uncultivated and even imper-This is forms the coasts of the Bras d'Or. said to be generally of good quality, and has been settled, almost exclusively by Scottish emigrants; but an active fishery is carried on near its entrance by Irishmen from Newfoundland. Bras d'Or Lake terminates in two bays. One called St. Andrew is 20 miles long, the other called St. George, 18 about 15 miles in length That of St. Peter is much smaller, but important from its red sandstone. approaching within 900 yards of the bay on the opposite coast.

The shores of this internal sea are not remarkable for their height. Numerous streams flow into it by circuitous channels forming low marshy islands. A tract on St Andrew's Bay is still occupied by the Mic

Mac Indians.

Geology.—The extensive coal, iron, and other mines in Cape Breton, seem to require some details under this head, for which I am indebted chiefly to the returns furnished by Judge Haliburton. The island contains from sandstone downwards, the whole of the rocks which constitute the transition and

primitive formations.

Primitive and Transition Classes.—Beginning with the high land which extends from the head of the eastern arm of the great lake, nearly to St. Peter's, a great variety of rocks occur: granite, the oldest of the primitive class, occupies a considerable portion. generally of a very small grain, and of a grey or red colour, the former being the most prevalent. It passes insensibly into sienite or greenstone, presenting a steep and broken chiff to the edge of the lake, and rising in abrupt precipices from the numerous deep ravines which intersect this part of the island.

The character and appearance of this rock (greenstone) are very diversified. In some places it passes imperceptibly into a claystone porphyry, of a dull green colour; in others, its structure is slaty, and the crystals scarcely discernible.

Clay-slate has only been noticed in one instance, namely, on the south shore of the harbour of Arichat, where it occurs, stratified in vertical beds, traversed by numerous small veins of quartz and calcareous spar. Its superficial extent is very inconsiderable

There is probably no thriving prosperously. The interior of Cape place of equal extent that can afford such numerous specimens of greywacke as this fectly known, except that portion of it which small island; it may be seen passing from lay slate, through an endless variety of gradations, into old red sandstone. Between great and little Arichat, immense weatherbeaten masses of a very coarse kind, protrude above the surface, which is consequently rugged and barren; proceeding hence to Descous, it gradually becomes more compact and granular, and it may be seen in its last stage at that place, where it passes into old

Greywacke and greywacke-slate also occupy an extensive tract, between the Red Islands and St. Peters, stretching out towards the head of the Grand River in an easterly direction. Associated with this formation, there are several beds of transition limestone, both in the Isle of Madame and opposite the Red Islands: at the latter place a deposit of shell limestone, apparently unstratified, may be seen almost in immediate contact with several vertical beds of a reddish-brown limestone, which is translucent on the edges.

Secondary Class.—Proceeding geologically upwards, the next formation is the old red sandstone, which reposes upon the greywacke, and is intimately connected with it. From the great entrance of the Bras d'Or Lake, it ranges in a south-eastern direction across the island of Bouladrie, passing to the south-ward of the town of Sydney, and underlying the carboniferous limestone, which forms the south-west boundary of the Sydney coal field. The remark made by Conybeare on the agricultural character of this rock, is strikingly verified in the preceding localities; for instance, in Lennox Passage, where the sandstone beds exclusively prevail, the soil is sandy and barren, affording support only for mosses, ferns, and brushwood, but where the sandstone alternates with argillaceous beds, the soil is, on the contrary, fertile and productive, as the luxuriant groves of hardwood on the island of Bouladrie bear ample evidence.

The carboniferous limestone which rests upon the old red sandstone, is a rock of the greatest importance, for it determines the boundaries and extent of the coal fields which it surrounds, constituting the basin or trough in which the coal veins and strata associated with them, are deposited.

The Eastern Coal District of Cape Breton and it appears to be surrounded with grey- commences on the northern head of wacke, which occupies nearly the whole of Miray Bay on the east coast and continues

to the great entrance of the Bras d'Or Lake. It is in length 35 miles, and averages five miles in width, and deducting the harbours, bays, and numerous indentations in the coast, comprises 120 square miles of land containing workable veins of coal. carboniferous limestone which forms the base of the Sydney coal field, may be traced from Cape Dauphin, crossing the Island of Bouladrie in a continuous line to the town of Sydney, the course being about S.S.E., and dipping to the N.E. If a line be drawn from Scatarı Isle to Sydney, and thence to Cape Dauphin, it will form the S.W. boundary of the Sydney coal field; the general dip of the veins being towards the N.E., we cannot therefore determine their boundary in that Judging from the comparative inclination of the highest and lowest strata on the western shore of Spanish River, where there is a cliff three miles in length, crossing the beds in the direction of their dip, we should suppose that the lower veins crop out in the sea 10 or 12 miles from the shore. The high cliffs which form an extended line of mineral precipices along the whole coast, exhibit very satisfactory and interesting sections of the strata, from the shale and grit beds overlying the limestone to the highest veins of coal In these cliffs, 14 veins of bituminous coal of excellent quality, none of which are under three feet in thickness, have been observed. Richard Smith, Esq., detailed a singular fact connected with these coal mines. In his evidence before Parliament some years ago respecting accidents in mines, he said :-

"When we first struck the coal at the depth of about 180 feet, it was highly charged with water; the water flew out in all directions with considerable violence; it produced a kind of mineral fermentation immediately. The outburst of the coal crossed the large river which passed near the coal-pit. not exactly aware of the precise outcrop, on account of a strong clay paste eight or ten yards thick rather difficult to find the outburst of coal, when clay paste is thickly spread over a country. At the river the water boiled similarly to that of a steam engine boiler, with the same kind of rapidity; so that on putting flame to it on a calm day, it would spread over the river, like what is commonly termed setting the Thames on fire; it often reminded me of the saying It is very common for the females, the workmen's wives and daughters, to go down to the river with the washing they have to perform for their families After digging a hole in the side of the river, about ten or twelve inches deep, they would fill it with pebble stones, and then put a candle to it; by this means they had plenty of boil ing water without further trouble, or the expense of fuel. It would burn for weeks and months unless put out. I mention this to show how highly charged

the coal was with gas. What I am now going to describe, may be worth a little attention. There was no extraordinary boiling of water, or rising of gas, before we cut the coal at the bottom of the pit, more than is usually discernible in a common pond of stagnant water, when a long stuck is forced into the mud. As soon as the coal was struck at the depth of 180 feet, it appeared to throw the whole mine into a state of regular mineral fermentation. The gas roared as the miner struck the coal with his pick; it would often go off like the report of a pistol, and at times I have seen it burst pieces of coal off the solid wall, so that it could not be a very lightly charged mine under such circumstances. The noise which the gas and water made in issuing from the coal was like a hundred thousand snakes hissing at each other."

The total thickness of the strata constituting the coal measures on the W. side of the harbour of Lingan amounts to 1,740 feet; that of the millstone grits and shale, probably 1,200. The thickness of the carboniferous limestone has not yet been ascertained

Western Coal District. — This includes the coal field on the River Inhabitants, and those of Port Hood and Mabou.

New Red Sandstone.—The last, but by no means the least important of the regular consolidated formations which occur in this island, is the new red sandstone, which is undoubtedly the most extensive deposit we have to notice. It commences beyond the outcrop of the old red sandstone, and is seen reposing in horizontal beds almost immediately upon the basset edges of the highly inclined strata of that rock in the great entrance to the lakes, about 10 miles S.W. of Cape Dauphin; covering an extensive area, it would be impossible to describe its different characters; in general, it is of a deep red colour, and very coarse description, containing immense beds of conglomerate.

In a commercial point of view, the new red sandstone ranks next in importance to the coal fields of the island, for it contains immense deposits of gypsum, of a very superior quality for agricultural purposes, and is becoming an article of considerable traffic with the United States, where its value is appreciated. It constitutes a cliff several miles in extent, and in some places 30 feet in height. The gypsum in the lower part of the cliff is sufficiently compact for architectural purposes, and that near the surface appears well adapted for potters' moulds stucco, flooring, &c. It is very conveniently situated for exportation, as vessels of great burthen may approach close to the chiff. It occurs abundantly in various other places.

The numerous salt springs which have

be found well worth the attention of capital-Placed so near the veins of coal, essential in the manufacture of salt, and situated in the very heart of the best fisheries of North America, they promise fair to become, at a future day, a productive source of wealth to the proprietors, and of incalculable benefit to the fisheries.

St. Paul's Island appears to be quite unconnected in a geological sense with the strata constituting the northern part of Cape Breton, and would seem to have been originally formed by a submarine volcano. The basalt found on it is of a black colour, with large proportion of oxide of iron. This island rises like an immense cone from the bottom of the ocean, the sloping sides becoming nearly vertical at the surface of the water, and forming an abrupt cliff. depth of water is very great close to the shore, and, at only three miles distance from the northern extremity, a line of 140 fathoms did not reach the bottom Connected with the geology of the country are its metallic minerals, copper, iron, and lead are found in great variety, the two former in abundance.

The Soil is light, on a sandstone rock, thickly covered with huge boulders of granite, in many places alluvial, presenting extensive tracts of land fit for the cultivation of any crops. On the NW. coast, in the valleys and along the banks of the small rivers a deep rich soil prevails. There is a good deal of wet, mossy bog land, which, as the country becomes cleared and peopled. will yield excellent crops.

Climate.—Cape Breton in some respects resembles the neighbouring peninsula, with perhaps more moisture from its insular position. The fog, which is swept along the shores of Nova Scotia by the S.W. wind, and along the S.E. coast of Cape Breton, as far as Scatari, is then blown off to sea: it never extends far inland, being dissipated by the reflected heat. The chmate is exceedingly healthy, and the water excellenttwo things of paramount value to the settler. The seasons may be thus indicated:—in June the blossoms of the indigenous shrubs appear; apple trees are in full bloom in the beginning of July, when strawberries are in perfection; hay is made in July and August; in the latter months raspberries and oats ripen, as do also currants and gooseberries,

their source in the new red sandstone, will hang on the trees until the approach of winter in October and November.

> Animal Kingdom.—All the usual domestic animals, besides the moose and cariboo; the former are now comparatively scarce, owing to an indiscriminate massacre which took place for the sake of the hides, soon after the English settled in the country. So great was the destruction of these fine animals that hundreds of carcases were left scattered along the shore from St. Ann's to Cape North, creating a stench so powerful as to be perceptible to vessels a considerable distance at sea.

Remains of huge animals are found, which a greenish shade, and apparently contains a it would appear formerly ranged in the vicinity of the Bras d'Or. Enormous bones, resembling thigh bones, six feet in length, are reported to have been seen lying at the bottom of the lake. In the bed of the Wagamatcook, shortly after the settlement on that river, an extraordinary skull was discovered. One of the teeth which was taken to Sydney, resembled, in general appearance, the molares of the human jaw: its greatest measure was about eight inches; but whether that length had been transversely or longitudinally situated in the jaw, could not be determined by those who had not seen the skull from which it had been The thickness from the root to the crown of the tooth was four inches, and the width across the crown about the same. There were ten processes upon the crown; five on either side. I give this statement on the authority of Mr. Haliburton; but a Nova Scotia newspaper of the year 1837, has the following more extraordinary statement.—"The tooth of an extinct species of animal has been recently found at Cape Breton, measuring 17 inches in length, eight inches round the thickest end, and weighing two pounds fifteen ounces; though partially decayed, a large portion is in an excellent state of preservation."

The Indians have a story, that a huge animal once raised its head out of the water of the Middle Barrasoi of Aspey Bay, near Cape North, and so terrified them, that it was long before any would venture thither

POPULATION.—The number of mouths is estimated at 50,000, of whom the greater part are emigrants from the Highlands of Scotland and their descendants. They are The next chiefly employed in agriculture. most numerous race are the original Eurowheat in September, and apples and plums pean colonists, or French Acadians; an

industrious people, employed in the fisheries, erroneously supposed that the "General and in building small vessels. maining colonists consist of English and the coal and iron in Nova Scotia and Cape rican loyalists, who were located here after of York, for 60 years, from 1825, of all the island, are now reduced to about 300, many of whom have embraced the Roman Catholic extent: they have lands assigned to them amounting to 10,000 acres.

Products.—Coal, fish, gypsum, and timber. The rivers, creeks, and bays teem with every variety of the finny tribe. The extent of coal and gypsum has been already stated. timber of excellent quality grows in immense forests: live cattle, butter, cheese, potatoes, oats, &c., are becoming increased articles of

export to Newfoundland.

The coal trade is increasing, and forms a lucrative traffic for Cape Breton as well as for Nova Scotia. The following is a return of the quantity of coal sold at the mines of the "General Mining Association" in Nova Scotia and Cape Breton, now open and in course of working :-

Sold in the Years	1845	1846	1847	1848		
For the British Provinces "United States	Ch 44,442 59,968	Ch 45,165 57,570	Ch 48,710 91,477	Ch 54,762 76,017		
Total .	104,410	102,735	140,187	130,779		

It will be seen from the above, that the United States consume a larger quantity of coal from Nova Scotia and Cape Breton than the British American provinces. the exertions of T. B. Foord, Esq., the able London secretary of the Mining Association, markets for their coal have been opened in all the seaports of the United States. Pictou coal, being free from sulphur, is most used for manufacturing purposes, such as the smelting of iron and for gas; the Cape Breton coal for domestic use and for steamvessels: both are equally applicable for the latter purpose, though more so when burned together. The Liverpool and Halifax steamers burn the Cape Breton coal on their voyages from America to England. In proportion to the progress of manufactures and population in the United States, the demand for coal from the British American provinces will increase, as Nova Scotia and Cape S.E., distance four miles. Vessels may run Breton are the only districts in North America in which this valuable mineral has been northern and southern heads. found of superior quality. It has been

The re- Mining Association" have a monopoly of all Irish settlers, disbanded soldiers, and Ame- Breton. By the lease granted to the Duke the American war. The Mic Mac tribe, mines and minerals in Nova Scotia and whose ancestors once tenanted the whole Cape Breton, an exception was made or such lands in the province as had been previously granted to individuals, over which religion, and are becoming civilized to some the Crown had reserved no mineral rights. Wherever, therefore, coal or iron can be found in Cape Breton or Nova Scotia thus situated, the proprietors, or their lessees, may work the mines; and, indeed, a company is now being formed in the province for this purpose, termed the "Londonderry Coal and Iron Company." The "General Mining Association," as sub-lessees of the late Duke of York, at a fixed rent of £3,000 per annum, have expended a million anda-half of money in the province, from which great benefit must have accrued to the colony. The Royalty is two shillings per chaldron on every chaldron shipped above 26,000 chaldrons Newcastle measure.

> The Sydney and Bridgeport coal mines are both in the island of Cape Breton. The Sydney mines are situated on the northwest entrance of Sydney harbour, a harbour unsurpassed by any in British America, and accessible in all winds. This coal field is similar in quality to that of Newcastle is well suited for all the purposes of good fuel, especially for domestic use. It is highly bituminous, ignites readily, gives a strong lasting heat, and leaves but little ash. railroad has been made from the pits to a point of the harbour, where vessels of any burthen can load with ease, and are well sheltered from the prevailing winds. establishment at the Sydney mines consists of about 150 persons, who occupy 50 houses, including the buildings required for the works.

> The Bridgeport mines are situated on the southern shore of Indian Bay, one mile and three quarters from the harbour where vessels load, and which is perfectly secure for shipping in the most boisterous weather. The southern head of Indian Bay, which is called Cape Table, bears by compass from Flint Island N.W. by W., distance eight miles and-a-half, and the northern head of the Bay bears from the light-house on Flat Point at the entrance of Sydney harbour safely into four fathoms water between the

The coal from these mines is of excellent

quality, of the same description as the Sydney, and little inferior to it. A railroad has been laid from the pits to the shipping-place, and along which the coal is carried and deposited at once in the holds of the vessels.

This establishment employs about 100 persons: the houses and buildings exceed 20 in number, exclusive of wharfs, sawpits, &c. The island is valuable in an agricultural as well as in a mineral point of land sold was 13,840 acres, at an average price of 2s. 4d. per acre.

The indifference too long manifested con-

cerning Cape Breton is gradually passing away, because its importance and capabilities are becoming better understood. It is to be hoped that the improvement now taking place in the social condition of the people may steadily progress, and that the blessings of religion and education may be, ere long, extensively diffused among them. They well deserve the hearty co-operation and goodwill of Britain, for their attachment towards view: In 1839, '40, and '41, the quantity of her, and the readiness they have evinced to defend their island against the enemies of the vast empire of which they form a small but valuable and valued part.

CHAPTER V.

SABLE ISLAND, THE MAGDALEN ISLANDS, AND BRION ISLAND.

SABLE ISLAND, famous for the disastrous attempt at colonization, made on its inhospitable shores by the Marquis de la Roche in 1598, has since acquired a still more painful notoriety from having been the scene and occasion of very many shipwrecks, from its lying in the direct track of vessels to and from Europe. It is about 85 miles distant from Cape Canso, and is included in the province of Nova Scotia. Its length is about 30 miles, its breadth varies greatly from its irregular outline, which is somewhat in the form of a bow. The W. end is in N. lat 43° 56′ 42″, W. long. 60° 71′ 15″; the E. end in N. lat. 43° 59′ 5″, W. long. 59° 42′. A considerable sum of money is annually appropriated for the maintenance of an establishment on the island, consisting of a superintendent and assistants, with abundant supplies of every article likely to be required This establishment in case of shipwreck. was formed in 1804, and kept up at the expense of the province until 1827; but in the latter year the British government undertook to furnish a sum equal to that voted by the province, and the establishment has consequently been greatly enlarged, and its usefulness much increased. Its necessity is sufficiently attested by the melancholy fact, that 40 vessels were wrecked there in a few years, and in a single winter 200 people are stated to have perished on its coasts. The surface of the island (according to the state-

ments furnished to Judge Haliburton) is undulating: and the colour is also very similar to that of the sea, from which it is not easily distinguishable. Throughout its whole extent there is not a single tree or shrub, and the only productions to be found upon it are a strong coarse grass, commonly known by the name of bent grass, or sea matweed, whortleberry, and cranberry bushes. grass is indigenous, and grows near the shore, or in low places; and the cranberry bushes are confined to the deep hollows, which the violence of the wind has formed by scooping out the sand, and driving it into the sea. With these exceptions, the soil, if such it can be called, consists of a naked sand, which is easily acted upon by the tempest, and drifts like snow. In some places it has formed conical hills, one of which is 100 feet high; and notwithstanding its exposure, and the looseness of its texture. continues to increase in bulk. After a gale of wind, human skeletons are sometimes exposed to view, and timber and pieces of wrecks are disinterred, which have been buried for years.

Those who have not personally witnessed the effect of a storm upon this place, can form no adequate idea of its horrors. The reverberating roar of the sea, when it strikes this attenuated line of sand, on a front of 30 miles, is truly appalling, and the vibration of the island under its mighty pressure extremity there is an extensive and dangerous bar. The N.W. bar is 16 miles long, and from a mile to a mile and-a-half wide, on the whole of which the sea breaks in bad That on the N.E., which is of the same width as the other, extends 28 miles, and in a storm forms one continued line of breakers. The currents are variable, one especially but little known to seamen, is stated to have been a chief cause of the numerous disasters. There seems reason to believe, that the gulf stream at 42° 30', running E.N.E. occasions the waters of the St. Lawrence, running SSW., to glide to the westward The strength of the current has never been noted, and three-fourths of the vessels lost are supposed to have thought themselves to the eastward of the island, when, in fact, they were in the longitude of it.

The island is said to be decreasing in size. The spot where the first superintendent dwelt is now more than three miles in the sea, and two fathoms of water break upon Although it must occasionally vary, according to the violence of storms and the action of the waters, yet it is thought that the effect of these is perceptible rather on the bars and shoals, than on the island itself, which is diminished by the wind faster than it is supplied by the ocean.

During the summer months, the S.W. wind is so prevalent as to be almost a trade wind, and is attended with the inconvenience to the party residing on it, and the danger to strangers, of being always accompanied by fog In winter the rigour of the climate is abated by the sea breeze; and snow, though it sometimes falls in heavy showers, is almost immediately blown off into the water. Although the island is a mere strip of sand, it contains a pond 18 miles long, and nearly a mile wide, denominated Lake Wallace, about 200 yards

seems to indicate that it will separate eventu- pest, similar to that which opened it, closed ally, and be borne away into the ocean. The it again, and blockaded two small American whole of the S. end is covered with timber, shallops that had sought shelter within it. which has either been drifted thither by the About the centre of the north side of the current or torn from wrecks, and driven on lake is the house of the superintendent, which shore by the violence of the sea. At each is one story in height, and 40 feet in length by 20 in breadth, near it stand the stores and a large barn. On an adjoining hill is a flag staff, made of the spritsail-yard of the French frigate l'Africane, wrecked in the year 1822, from which signals are made to vessels in distress. At each end of the lake is a hut, furnished with provisions, apparatus for striking fire, and directions for finding the house of the superintendent. Two small kitchen gardens are attached to the house, and one place has been found where cabbages can be reared. Rye, oats, and Indian corn, have been frequently sown, but they have never arrived at maturity. The stock of cattle consists of a few horses, some cows and oxen, hogs and poultry. But though the attempt to raise sheep has been often made with every possible care, it has hitherto failed, the climate or the food not being congenial to them. Besides the barn adjoining the house, there is another at the east end of the lake, which is filled with hay made of the beach grass. The family of the superintendent are supplied with firewood by the drift timber found on the south end of the island, which is hauled to the lake and there formed into a raft, and towed to the dwellinghouse, for which purpose they are furnished with two excellent whale boats. The water of the island is brackish and of vellowish colour, but is everywhere attainable in the hollows by digging from three to five feet. From an early period there appears to have been a herd of wild cattle upon it. The Portuguese were the first who made this humane provision for the unfortunate, by landing some calves, which increased in a few years to such an extent, as to induce unprincipled men to hunt them for the sake of their hides and tallow, and in some instances to remove them alive. The disreputable nature of the employment, and the danger attending a protracted visit on the between which and the sea, on the south island, were such, that they were not exterside, there is a narrow ridge or sea wall, of minated for more than a century, After This lake, when the island this it was again stocked, but the cattle was first discovered, appears to have had the shared the same fate as those which had same form as at present; but very many been previously placed there. At a subscyears afterwards a breach was made into it quent period, a French clergyman, at Boston, by the sea on the north side, and an inlet named Mr. le Mercier, who called himformed, which converted it into a very com- self an Englishman by naturalization, sent modious harbour for small coasters. A tem- cattle thither, and proposed to remove there

himself. Among the records of the pro- in the course of the winter, and during the vince, there is an application from him to heutenant-governor Armstrong, at Annapolis, for a grant of the island, but as he declined to accept it on the terms proposed, of paying a quit rent to the king, it was finally withheld. A proclamation, however, was issued by the governor, forbidding people to kill these animals, and they continued there for many years, but at what time they were destroyed and succeeded by the horses now upon it, is not known, nor is it ascertained whether the latter are the descendants of some sent there by him, or of others which have escaped from wrecks. Since the formation of the establishment, and the protection afforded them by it, they have greatly increased in number. They are small, but strong and active, and endure, with surprising hardihood, the inclemency of the weather in winter, without any other shelter than that afforded by the hillocks of sand The south end of the island is their general resort, on account of the quantity of grass on its shores, and its remoteness from the house of the superintendent. They have increased beyond their means of subsistence, and although many are killed every year to supply fresh provisions for the crews of wrecks, who are detained there until an opportunity offers for conveying them to Nova Scotia, yet several of the aged and infirm are generally found dead every spring They are exceedingly wild, and it is no easy matter to approach within gun-shot of them As it is desirable that no ineffectual efforts should be made to shoot them, and that they should not be unnecessarily maimed or wounded, great care is taken by the marksman to secrete himself in a suitable place, until an animal approaches within a convenient distance, when one shot usually suffices to kill him The young male horses are selected for slaughter, and are easily distinguished from the aged by their superior condition, and by the size of the mane, which in the old horses is of extreme length, reaching nearly to their by no means unpalatable. also well stocked with English rabbits,

rainy weather of the spring and autumn. Until within the last 15 years, there was a small herd of wild hogs, that became exceedingly fierce. The climate, however, which had always restricted their increase. finally overcame them altogether, for the whole perished during an unusually severe winter. Since that time it has not been thought advisable to renew this species of stock, which, considering the nature of the food that shipwrecks must sometimes have unfortunately furnished them, must always have been objects of horror and disgust. During the early part of the summer, gulls, ducks, divers, and other wild fowl, lay an immense quantity of eggs on the southern point, and a party from the house frequently sail up the lake and fill their boat with them. At the approach of winter these birds migrate to the continent

Soon after the settlement of the New England colonies, this place became a favourite resort of fishermen for the purpose of killing morse and seal. The former are nearly exterminated, but the latter still afford, during the season, a favourite employment to the people of the superintendent. They are of the species "Phoca Ursina," the male is sometimes eight feet long, and 800 pounds in weight, but the female is much smaller. The colour of the former is nearly black, and of the latter a dark speckled brown hair is long and rough, and on the neck of the male is upright, and a little longer than the rest The forc legs are about two feet long, and the hinder ones twenty-two inches, the feet being divided by five toes, separated by a large web, and spreading to the extent They are prodigiously of twelve inches. strong, swimming at the rate of seven miles an hour, and are very tenacious of life, often surviving the most severe wounds. on shore they live in families, each male being attended by several females, whom he guards with great jealousy The young ones, at twenty days old, are nearly white, and knees. The meat is said to be tender and their flesh bears a resemblance to that of The island is sucking pigs. The males, when old, are deserted by the females. They then live apart which make an agreeable variety in the food from the rest, and become exceedingly fierce of the residents. The nature of the soil is and quarrelsome. Their contests are often so peculiarly adapted to the habits of these violent and sanguinary, and they inflict animals, that they have multiplied astonish- wounds on each other, not unlike the cuts ingly, and are prevented from becoming too of a sabre. At the termination of one of numerous only by a similar increase of rats, these battles, they throw themselves into the the progeny of those that have escaped from sea to wash away the blood. Although by wrecks. Great numbers of the latter perish no means so numerous as they were in forgreat numbers. They arrive on the north- Island, the most southerly of the chain, east bar about the middle of January, for 1s nearly oval in form, having about five the purpose of whelping, and remain there and-a-half and three and-a-half miles for for the space of a month; when the pupples its axis, with an isolated hill about 260 feet are about twenty-five days old, preparations are made for attacking them is armed with a club five or six feet in length, straight entrance over a soft ooze bar, fit made of oak or ash, the butt being transfixed for vessels drawing 11 to 12 feet water. with a piece of steel, one end of which is Numerous spots of said almost connect shaped like a spike, and the other formed Amherst with Grindstone Island, whose into a blade beyond the summit of the bar, so as to avail the next in succession, is about nine miles themselves of its declivity to facilitate their long and three broad. Then follows Entry descent into the sea, the assailants approach and Coffin Islands. The population consists with great caution and silence, and when of about 200 families, the greater part of within about 200 yards, rush in between whom are French Acadians—fishermen them and the water, and commence the at- Lieutenant Baddely, who examined these tack. Each man selects the largest as the islands, thinks them of igneous origin, object of his particular pursuit, and strikes first, by reason of the form of the hills of him, on the back part of the head, several which they are composed; -secondly, on blows with the steel spike. He then applies account of their porphyritic, amygdaloidal, the blade, in the same manner, to the wound vesicular, or lava-like structure, -thirdly, thus inflicted, and repeats the blows till the the geological appearances of the sandstone, animal is brought to the ground. The clays, &c, shown in their displacement, in strength and fierceness of this species of their redness, and even in their friability. seal is so great, that this attempt is not In some places the soil is a rich black mould, unaccompanied with danger, and when they as at St Vincent's, and other volcanic turn on their pursuer, they often ward off islands in the West Indies the blow with much dexterity, and have been known to seize the club in their mouth and north of the Magdalen islands, have been escape An ordinary hand-spike would be altogether unavailing, and a musket equally When driven off this shoal, they land again on the north-west bar, where they are name from the numerous birds which breed pursued in the same manner, after which there they disappear altogether until the ensuing year. The chief value of the seal consists in the oil. When the animal is killed, the fat is peeled off with knives The skin of a full-grown seal is worth about five shillings, and that of a whelp about one shilling and sixpence. The proceeds of the sale, both of the skins and the oil, go towards the funds of the establishment

THE MAGDALEN ISLANDS are situated 18 leagues NW. of Cape Breton, the same distance northward of Prince Edward Isle, 36 leagues from the nearest point of Newfoundland; 75 leagues from the French settlements of Miguelon and St. Pierre, and 180 leagues eastward of Quebec With four exceptions they form an almost continuous chain of land, about 42 miles long, in a

mer vears, they still resort to the island in nearly N.E. and S W. direction. Amherst hove the level of the sea Each person the best in the chain, with a narrow but As the seals seldom advance diameter is about five miles Cape Abright,

BRION ISLAND AND THE BIRD ISLANDS. recently visited by the distinguished ornithologist, Audobon, who thus describes the "Great Gannet Rock," which derives its Mr Audobon savs —

"For several days I had observed numerous files proceeding northward, and marked their mode of flight while thus travelling -At length, about ten o'clock, we discerned at a distance a white speck, which our pilot assured us was the celebrated rock of our wishes After a while I could distinctly see its top from the deck, and thought that it was still covered with snow several feet deep. As we approached it, I imagined that the atmosphere around was filled with flakes, but on my turning to the pilot, who smiled at my simplicity, I was assured that nothing was in sight but the Gannets and their island home I rubbed my eyes, took up my glass, and saw that the strange dimness of the an was caused by the innumerable birds, whose white bodies and blacktipped pinions produced a blended tint of light-grey. When we had advanced to within half a mile, this magnificent veil of floating Gannets was easily seen, now shooting upwards, as if intent on reaching the sky, then descending as if to join the feathered masses below, and again diverging toward either side and sweeping over the surface of the ocean."

BOOK III.—NEW BRUNSWICK.

CHAPTER I.

GEOGRAPHICAL POSITION, BOUNDARIES, AREA, AND HISTORY.

Position and Area. - New Brunswick forms an eastern section of the American continent, and is situated between 45° 5' and 48° 20' N. lat., and between 63° 50' and 68° W. long. It is bounded on the N. by Chaleurs Bay, in the Gulf of St. Lawrence (which separates it from the district of Gaspé), and by the Ristigouche River, which, in its whole course, from its source to its estuary in Chaleurs Bay, divides the province from the county of Bonaventure in Lower or Eastern Canada,* on the S. and S.E by the Bays of Fundy, Chignecto, and the narrow peninsula which prevents Nova Scotia from being entirely insulated; the county of Westmoreland in New Brunswick being divided from that of Cumberland in Nova Scotia only by a boundary line drawn from Fort Cumberland to Bay Vert in Northumberland Straits (an arm of the Gulf of St. Lawrence); on the E. by Northumberland Straits, which separates it from Prince Edward Island and the Gulf of St Lawrence, and on the E. by the territories of the United The boundary line is so often a matter of discussion, that it may be acceptable to give verbatim the first article of the treaty of 1842 (commonly known as the Ashburton Treaty) by which it was finally arranged.

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"It is hereby agreed and declared, that the line of boundary shall be as follows — Beginning at the monument at the source of the River St Croix, as designated and agreed to by the commissioners under the Fifth Article of the Treaty of 1794, between the governments of Great Britain and the United States, thence north, following the exploring line run and marked by the Surveyors of the two Governments in the years 1817 and 1818, under the Fifth Article of the Treaty of Ghent, to its intersection with the river St John, and to the middle of the channel thereof; thence up the middle of the main channel of the said river St. John to the mouth of the river

* The boundary between New Brunswick and Canada is imperfectly defined. From the western extremity of Chalcur Bay, the river Ristigouche was adopted instead of "a line along the high lands which divide the rivers that empty themselves into

St. Francis: thence up the middle of the channel of the said river St. Francis, and of the lakes through which it flows, to the outlet of the Lake Pohenagamook, thence south-westerly, in a straight line, to a point on the N.W. branch of the river St. John, which point shall be ten miles distant from the main branch of the St John, in a straight line and in the nearest direction, but if the said point shall be found to be less than seven miles from the nearest point of the summit or crest of the highlands that divide those rivers which empty themselves into the river St. Lawrence from those which fall into the river St. John, then the said point shall be made to recede down the said N.W. branch of the river St. John, to a point seven miles in a straight line from the said summit or crest; thence in a straight line, in a course about S., eight degrees W., to a point where the parallel of latitude of 46° 25' N, intersects the S.W. branch of the St. John's; thence southerly by the said branch, to the source thereof in the highlands at the Metjarmette Portage, thence down along the said highlands which divide the waters which empty themselves into the river St Lawrence, from those which fall into the Atlantic Ocean, to the head of Hall's Stream; thence down the middle of said stream, till the line thus run intersects the old line of boundary surveyed and marked by Valentine and Collins previously to the year 1774 as the 45th degree of N latitude, and which has been known and understood to be the line of actual division between the States of New York and Vermont on one side, and the British Province of Canada on the other, and from said point of intersection W along the said dividing line, as heretofore known and understood, to the Iroquois, or St. Lawrence River."

The province is in form an irregular square, contains about 26,000 square miles, and has a sea coast 500 miles in length.

HISTORY.—The early history of New Brunswick is comprehended in that of Nova Scotia. Under the dominion of France it formed a portion of Acadia or New France, and its first settlements (of which the records are in general vague and unsatisfactory) appear to have been almost entirely confined to military posts on the St. John, and those at Chignecto and Bay Verte. Dr. Gesner,

the river St. Lawrence from those which fall into the sea, to a point in the 45th degree of N. latitude." But the Ristigouche River divides into two streams, which have different sources. [See Map of New Brunswick on Map of Eastern Canada.]

in his recent and valuable "History of New Brunswick," from which I have obtained much interesting detail, says, that the first attempt at the colonization of the northern part of New Brunswick was made in 1639. In 1672 a number of French families emigrated to the river Mıramichi, and soon after several small settlements were formed in different places, and a fortified town called mouth of the Ristigouche. At Beaubair's Point and on the island of that name (so called in honour of the governor or superintendent of the colony, Monsieur Beaubair, considerable settlements were formed, and some traces of cultivation still remain. The settlers employed themselves chiefly in hunting and fishing, and had an extensive export trade, which continued prosperously until 1757, when it was greatly interrupted by English cruisers on the coast. In the same year their crops failed, and the succeeding winter they were reduced to a state of starva-To the horrors of famine were added those of a pestilence, supposed to have been introduced by a vessel wrecked near the mouth of the Base des Vents River, the remains of which are still to be seen Two transports were despatched from France with supplies, for the relief of these unhappy people, but the vessels were captured by the British fleet, and 800 of the inhabitants perished. From the wearing away of the banks of the river at Beaubair's Point, where great numbers of them were burned, many graves have been opened; and in 1842 the bones of the early French emigrants were seen protruding from the soil, where, at present, a highway descends to the ferry crossing the N.W. branch of the river. Most of the habitans who survived fled to Chaleur Bay, St. John's Island, and Memnancook on the Peticodiac. Only a few colonists remained at French Fort Cove, Canadian Point, and Nequaak, which were the principal rallying points for the savages.

After the conquest of Quebec, a vessel, having on board the remains of General Wolfe, was driven, by stress of weather, nto Miramichi river. The captain sent a boat and six men on shore to procure water. The boat landed at Henderson's Cove: the men were suddenly surrounded by a party of armed Indians and soldiers from the fort, and murdered upon the spot. The captain Halifax. On a subsequent occasion the of the vessel, on being informed by the colony was saved from destruction by the pilot of this barbarous massacre, retaliated exertions of a Roman Catholic priest, named

the battery at the Cove, he destroyed the settlement at Canadian Point, and, it is said, he there put to death the miserable survivors of the famine and the pestilence. In proceeding to sea he landed at Neguaak. and set fire to a large church, from which circumstance the settlement has been ever since called Burnt Church.

In 1760 a French fleet was sent to attempt Petite Rochelle, was commenced near the the recovery of Canada, which being pursued by the British squadron, took refuge in the Ristigouche, at the town of Petite Rochelle, where there were two batteries. Captain Byron, the British commander. having with difficulty worked his ships up the river, forced the enemy to an engagement, and succeeded in capturing and destroying the whole fleet. He then demolished the town, and razed the fortifications to the ground. The remains of two French vessels may still be seen at low-water near Mission Point, where several pieces of cannon are partially buried in the sand. At the site of Petite Rochelle, muskets, swords, bombshells, with a variety of other warlike instruments, have been found; and among the ruins of the town, china, silver forks and spoons, and other articles of luxury, have been discovered, evidencing the advanced state of civilization of its former inhabitants.

About 1761, settlers from Great Britain and the adjoining colonies began to flow into the province. In 1764, the first British settler, a Mr Davidson, emigrated from the north of Scotland to Miramichi, and in the following year obtained from the British government a grant of 100,000 acres, situated on the south-west branch of the Mıramichi. He was afterwards joined by a Mr. Cort, from Aberdeen, and they soon established a valuable trade. The fishery annually yielded them from 1,400 to 1,800 tierces of salmon, and they lived upon good terms with the Indians until the commencement of the American revolution, when the savages declared themselves in favour of the revolutionists, plundered their stores, and decreed the death of every individual belonging to the infant settlement. The arrival of the Viper sloop-of-war prevented the contemplated massacre. Thirty of the Indians attempted to capture the vessel, part of whom perished in the attempt, and the remainder were taken prisoners and sent to with almost equal brutality. After silencing Cassanette. The first English settlement on

the St. John was formed by some families from Massachusetts, who, having obtained from government the grant of a township on that river, immediately established themselves in the district now known as the County of Sunbury. At different times during the war they were joined by American loyalists and refugees. The first commission of the peace for this settlement is dated 11th of August, 1766, and the Courts of Common Pleas were held in Sunbury until 1783, when Fredericton was made the seat of government. The population at this period amounted to 800 souls.

In 1783 several thousands of disbanded troops were removed from New England to New Brunswick, and a number of Acadians who had established themselves at Fredericton were removed to Madawaska to make room for them. Even here the Acadians have not escaped the vicissitudes of fortune; for according to the boundary line laid down in 1842, one part of Madawaska district is assigned to Great Britain, and the other to the United States, and the divisional line has consequently placed the same people

under two different governments.

In 1784, New Brunswick was separated from Nova Scotia, and made a distinct pro-General Carleton was appointed governor, and by his judicious—his paternal administration - for nearly 20 years, he raised the country from almost the state of a wilderness to comparative civilization. the year 1809, the duty on Baltic timber was advanced to £2 14s. 8d per load, while that from the colonies was left free exportation from New Brunswick thereby received a great stimulus, and rapidly increased until 1825, when, from speculative over-trading, it experienced a severe check, from which, however, it recovered, and became as thriving as before. It has recently been again depressed.

In 1826, the east coast of Miramichi was visited by an awful conflagration, of which the following description, by an eye-witness (Mr. Cooney), may probably be acceptable to those who, never having been out of Europe, have probably but little idea of the fury and rapidity with which fires rage after a continuation of hot seasons in North America and New Holland, when the dry underwood and fallen leaves, in addition to the resinous quality of the timber, afford combustible materials in the greatest abundance:—

"The summer of 1825 was unusually warm in both hemispheres, particularly in America, where its effects

were fatally visible, in the prevalence of epidemical disorders. During July and August, extensive fires raged in different parts of Nova Scotia, especially in the eastern division of the Peninsula. The protracted drought of the summer, acting upon the andity of the forests, had rendered them more than naturally combustable; and this facilitating both the dispersion and the progress of the fires that appeared in the early part of the season, produced an unusual warmth. On the 6th October, the fire was evidently approaching Newcastle; at different intervals fitful blazes and flashes were observed to issue from different parts of the woods, particularly up the NW., at the rear of Newcastle, in the vicinity of Douglastown and Moorfields, and along the banks of the Bartibog. Many persons heard the crackling of falling trees and shriveled branches, while a hoarse rumbling noise, not dissimilar to the roaring of distant thunder, and divided by pauses, like the intermittent discharges of artillery, was distinct and audible. On the 7th of October the heat increased to such a degree, and became so very oppressive, that many complained of its enervating effects. About 12 o'clock a pale sickly mist, lightly tinged with purple, emerged from the forest, and settled over it.

"This cloud soon retreated before a large dark one, which occupying its place, wrapt the firmament in a pall of vapour, and the heat became tormentingly There was not a breath of air—an irresistible lassitude seized the people, and a stupifying dulness seemed to pervade every place but the woods, which trembled, and rustled, and shook with an incessant and thrilling noise of explosions rapidly following each other, and mingling their reports with a discordant variety of loud and boisterous sounds this time the whole country appeared to be encircled by a fiery zone, which gradually contracting its circle by the devastation it made, seemed as if it would not converge into a point while anything remained to be destroyed A little after four o'clock an immense pillar of smoke rose in a vertical direction, at some distance NW of Newcastle, and the sky was absolutely blackened by this huge cloud, but a light northerly breeze springing up, it gradually distended, and then dissipated into a variety of shapeless mists. About an hour after, or probably at half-past five, innumerable large spires of smoke, issuing from different parts of the woods, and illuminated by flames, that seemed to pierce them, mounted to

he sky.

"The river, tortured into violence by the hurricane, foamed with rage, and flung its boiling spray upon the land. The thunder pealed along the vault of heaven the lightning appeared to rend the firmament For a moment all was still, a deep and awful silence reigned over everything. All nature appeared to be hushed, when suddenly a lengthened and sullen roar came booming through the forest, driving a thousand massive and devouring flames before it Then Newcastle, and Douglastown, and the whole northern side of the river, extending from Bartibog to the Naashwaak, a distance of more than 100 miles in length, became enveloped in an immense sheet of flame, that spread over nearly 6,000 square miles! That the stranger may form a faint idea of desolation and misery which no pen can describe, he must picture to himself a large and rapid river, thickly settled for 100 miles or more, with four thriving towns, two on each side of it, and then reflect that these towns and settlements were all composed of wooden houses, stores, stables, and barns; that these

barns and stables were filled with crops—and that their passage from life to death rude and melanthe arrival of the fall importations had stocked the warehouses and stores with spirits, powder, and a variety of combustible articles, as well as with the necessary supplies for the approaching winter He must then remember that the cultivated, or settled part of the river, was but a long narrow stripe, about a quarter of a mile wide, lying between the river and almost interminable forests, stretching along the very edge of its precincts, and all round at Let him then animate the picture by scattering countless tribes of wild animals; hundreds of domestic ones; and even thousands of men through the interior. Having done all this he will have before him some idea of the extent, features, and general circumstances of the country, which, in the course of a few hours, was suddenly enveloped in fire. A more ghastly, or a more revolting picture of human misery, cannot be well imagined Nothing broke upon the ear but the accents of distress; the eye saw nothing but ruin, and desolation, and death Newcastle, yesterday a flourishing town, containing nearly 1,000 inhabitants, was now a heap of smoking ruins, and Douglastown was reduced to the same miserable condition the 260 houses and storehouses that composed the former but 12 remained, and of the 70 that composed the latter but 6 were left The confusion on board of 150 large vessels then lying in the Miramichi, and exposed to imminent danger, was terrible-some burnt to the water's edge-others burning-and the remainder occasionally on fire Dispersed groups of half-famished, half-naked, and houseless creatures, all more or less injured in their persons, many lament-ing the loss of some property, or children, or relations and friends, were wandering through the country Of the human bodies some were seen with their bowels protruding, others with the flesh all consumed, and the blackened skeletons smoking, some with headless trunks and severed extremities—others reduced to ashes-many bloated and swollen by suffocation, and lying in the distorted position of their last agonizing convulsions Bilef and violent was

choly their sepulchre—'unknelled, uncoffined, and unknown.' Upwards of 500 human beings perished. Thousands of wild beasts, too, had been destroyed in the woods, and from their putrescent carcases issued streams of effluvium and stench Domestic animals of all kinds lay dead and dying in different parts of the country; myriads of salmon, trout, bass, and other fish, which poisoned by the alkali formed by the ashes precipitated into the river, now lay dead, or floundering and gasping on the scorched shores and beaches; and the countless variety of wild fowl and reptiles shared a similar fate. Such was the awful conflagration at Miramichi, which elicited the prompt benevolence of very many philanthropists in the Old and New World, who subscribed £40,000 for the relief of the survivors, whose property, to the extent of nearly a quarter of a million, was destroyed"

Administrators of the Government of New Bi unswick T. Carleton, Governor-in-Chief 1784 G G Ludlow, President 1786 E Winslow 1803 Lieutenant-Colonel G Johnston 1808 General M Hunter 1809 General W Balfour 1811 General M Hunter General G S Smyth 1812 General Sir T Saumarez 1813 General G S Smyth 1814 Lieutenant-Colonel H W. Hailes 1816 General G S Smyth, Licutenant-Governor 1817 Ward Chipman, President 1823 J M Bliss 1824 General Sir H Douglas, Lieutenant-Governor W. Black, President 1829 General Sir A Campbell, Lieutenant-Governor 1831 General Sir J Harvey Colonel Sir W E Colebrook 1837 1841 Sir E W Head, Bart 1848

CHAPTER II.

TOPOGRAPHY, DESCRIPTION OF THE COUNTIES AND CHIEF CITIES, GEOLOGY, MINERALOGY, SOIL, TIMBER TREES, AND CLIMATE.

much variety of scenery, and is marked by several distinguishing features. The greater part of its surface undulates boldly, forming several continuous ridges of high land, as, for instance, that which extends from Maine, in the United States, to Mars Hill, and from thence stretches across the country in they offer of speedy and abundant return to a N.E. direction, and sending off a branch diligent labour. The greater part of New to the Ristigouche, nearly reaches Chaleurs Brunswick is still an uncultivated, though ranges are seldom of any considerable height, of fine timber and extensive prairies, of its

Physical Aspect.—New Brunswick presents yet their precipitous acclivities, sharply defined outline, and deep ravines, give them an Alpine character, while the rich valleys, sheltered plains, and noble forests, through which rivers and lakes wind in every direction, offer many a cheering prospect to the eve of the intending settler, by the promise The elevations in this and other beautiful wilderness, containing abundance

form, much more to convey, any satisfactory vicinity of the city of St. John, the land in this idea, except by describing the leading feacounty has been very carefully cultivated, and tures of the counties, which are in general in the valleys and less elevated parts, good marked by natural, rather than artificial limits.

The chief river, the St. John, which rises in the territory of the United States, near the source of the Connecticut, and entering New Brunswick in or near 47° N. lat., flows in a semicircular form through the province until it disembogues in the Bay of Fundy 85 miles, up to Fredericton, it is navigable tons can ascend to the Grand Falls, which only to the St. John in extent and importance, and with its numerous tributaries examining the district which it waters New the population increases others will doubtless be created; according to Dr Gesner, there is still sufficient space for a county in Tobique River, and one or two in the district of the Ristigouche. The names of the counties are, Gloucester, Northumberland, Kent. Westmoreland, St. John's, Charlotte, King's, Queen's, Sunbury, York, Carlton, Ristigouche, and Albert. Gloucester, Northumberland, and Kent, originally formed one county, called Northumberland, which extended over an area of 8,000 square miles, and possessed a river frontier from the source of the Ristigouche to Dalhousie Harbour, at the head of Chaleurs Bay, and from thence a seaboard along the S. side of the bay to the gulf coast of Shediac Island. and barracks. Other counties have also been re-divided.

St. John's County extends along the northern shore of the Bay of Fundy for nearly 90 miles, its average breadth being about 10 miles. It contains the parishes of Portland, Carlton, Lancaster, St. Martin's, and Simonds. The coast line is almost entirely

general aspect it is therefore difficult to large parish of St. Martin, but owing to the crops of oats, potatoes, and turnips are raised, and considerable advance has been made in the culture of wheat. Some excellent samples of turnips were exhibited in 1846, and the produce of the fields where they were grown, was stated to be at the rate of 800 bushels per acre.

The city of St. John in 45° 20' N. lat., in 45° 20" N. lat., and 66° W. long. For 66° 3' W. long., is built on a rocky peninsula projecting into the harbour at the mouth of for vessels of 50 tons; thence barks of 20 the noble river of the same name, and from its favourable position is the emporium of are 125 miles higher, above them it is only the inland trade of a great part of New useful for boats. The Miramichi is second Brunswick. Much labour has been employed in levelling the streets, but several of them are still inconveniently, and in winter drains a vast tract of country. Three of even dangerously steep. That division of the N.W. branches spring from a chain of the city nearest the entrance of the harbour, lakes in the Upper Tobique country, and is called Lower Cove. The principal wharfs, descending with rapidity traverse the forests docks, and warehouses are situated farther of the S.W. for nearly 200 miles, then to the north. The whole shore is lined with uniting the Miramichi becomes navigable timber ponds, booms, and ship-yards, which for large vessels, and, at length, falls into receive the numerous rafts floated down the the fine bay of the same name in 47° N. lat., river. It is an incorporated city, divided and 64° 53' W. long. The Ristigouche is into six wards, governed by a mayor, realso a fine stream, and will be noticed when corder, aldermen, sheriff of the county, coroner, common clerk, &c. St. John's has Brunswick now contains 13 counties, and as risen into opulence with as much rapidity as any city in North America. But little more than 60 years ago, the site of St. John was a rocky headland, covered with cedar thickets. the vicinity of the Grand Falls, one on the By the patient industry of American loyalists, the foundation of its present prosperity was established. The streets are regularly, and on the whole well built. The numerous public buildings of stone, brick, and wood are many of them remarkable for their excellent structure. In 1837, a destructive fire consumed 115 houses and stores. was estimated at £250,000. Several severe fires have occurred since, and whole streets, including the north and south market wharfs. and a new market-house, have been laid in ruins. The extreme point of the peninsula is occupied by two batteries, military stores, Steam-boats ply night and day between St. John's and Fredericton.

Carlton, a town on the W. side of the harbour, is included in the city, and contains several good streets. The harbour of St. John is safe, commodious, and open at all seasons of the year. At its mouth lies Partridge Island, on which is a battery, lightcomposed of barren rocks, especially in the house, and hospital for the reception of the sick emigrants and sailors on their entering the quarantine station. Between the island and the mainland, is a long narrow bar, dry at low water, and on the bar is fixed a beacon crowned by an excellent light. The fishery here is very productive. The population of the city of St. John in 1840, was 20,716, but the suburb of Portland would add at least 5.000 to that number.

Perley, in his official returns, dated January, suburb of Portland, at 30,000, and the rest of the county at 8,000 souls, in all 38,000 souls-about equal to one-fifth of the whole population of the province. The river St John, before its entrance into the harbour, passes through a fissure in the solid rock, which exhibits every appearance of having been occasioned by some convulsion of nature. course of many hundred miles being compelled to pass through a channel only 150 vards wide, rushes downwards with extreme velocity, forming the falls, which are simply a sluice on a grand scale Dr Gesner says, "that the ordinary tides of the harbour rise below the falls 26 feet; above the falls, their common elevation is only about 18 inches, therefore, the height of the fall outwards is 24 feet 6 inches But the entrance of the river at the gorge is too narrow to admit the sea on the flood-tide to flow in freely, and therefore there is the singular occurrence of a fall inwards at high water, and a fall outwards at low water. The time for vessels to pass through the narrow opening or fall, is fixed at three quarters of an hour at each ebb and flood, or when the sea and river are both at the same level" Musquash Harbour, to the SW of St John's, is a safe and beautiful haven, two miles long, and half a mile wide.

Charlotte County occupies the S W angle of New Brunswick, and is separated from the United States by the River St Croix It contains ten parishes, viz, St Andrew's, St. Stephen's, St. David's, St George's, St. Patrick's, St. James's, Pennfield, Grand Manan, West Isles, and Campo Bello. It is a hilly country, with ridges of granite rocks 100 tons burden 33 miles. It was called by along its northern boundary; but it possesses the French, Petit Coude, (Little Elbow,) much good land, especially in the valleys of from its making, 26 miles from its mouth. the numerous streams by which it is inter- a sudden turn at a right angle called the sected. The principal parish, St. Andrew's, Bend, where the tide flows in and ebbs off contains the shire town of the same name, in six hours. The east-side of the Petiwhich is conveniently situated for commerce, codiac, for 12 miles above its entrance, is on a narrow slip of low land at the N.E. occupied by Mic Mac Indians. Dorchester,

xtremity of Passamaquoddy Bay. phen's, at the head of the navigation of the St. Croix, is a thriving town. The parish of St. George is intersected by the Magaguadavic, and has an excellent harbour called L'Etang. Pennfield parish is chiefly settled by Quakers. Grand Manan Island is situated 12 miles S. of the main land of the United States. It is 25 miles long, with a Portland continues to increase, and Mr. mean breadth of five, having a number of islets on its N E. side. A great part of the 1847, estimates the city of St. John with the island is cultivated: the herring fishery is extensively prosecuted on its shores; and, in consequence of its important situation. commanding the entrance to the Bay of Fundy, is extremely valuable, being so far fortified by nature, that a little assistance from art would render it invulnerable. The perpendicular cliffs are, in some places, 600 feet high. Campo Bello Island is, in length, The volume of water collected in a from N. to S, eight miles, with an average breadth of two. It is, for the most part, in a state of cultivation. The harbour De Lute, on the west side, near the north extremay, is large and safe, with a spacious entrance.

Deer Island is twelve miles long and three miles broad. It is partially cultivated, and surrounded by a multitude of small islets. The spacious and beautiful inlet of Passamaquoddy Bay, which separates the sea-coast of New Brunswick from the United States territory of Maine, is studded with numerous islets, some of which are richly wooded. This noble bay has the advantage of being free from ice to a greater extent inland than any other harbour north of New York. The fisheries in this county, in the vicinity of West Isles, Campo Bello, and Grand Manan, are of much importance.

The County of Westmoreland, until 1845, included the district south and west of the river Peticodiac, now erected into the county of Albert. It is eminently an agricultural and grazing county, containing extensive dyked marshes, a few small lakes, and occasional peat bogs and swamps. The coast is deeply indented by Shepody Bay and Cumberland Basin; the former receives the Peticodiac, a fine stream, navigable for vessels of

the shire town, is well built and thickly died at the advanced age of 110 years. Sackville parish borders upon Cumberbetween the provinces. Fort Beau Sejour, the south-western termination of the ridge. where it commands the entrance of both streams On it stands a church and chapel, surrounded by fine farms and rich marshes. Bay Verte (so called from the salt-water grass that grows in the mud and floats on the surface.) is a narrow and shallow estuary, especially at its inner extremity. Shediac parish has a good harbour, near the mouth of which are two beautiful islands turn of the tide in the Bay of Fundy exhibits that peculiar phenomenon termed the Bore, which takes place on a much grander scale at the mouths of the Ganges, Indus, and Mississippi. The waters seem to accumulate without advancing, until the waves attain a considerable perpendicular height, and then dash forward with extreme velocity and irresistible force, the loud roar striking terror into the animals on the shore, who fly towards the highlands trembling with alarm.

Albert County.—From its recent organization this county requires but a brief notice. It contains 433,560 acres, of which 233,700 are granted and located. Its population is estimated at 5.660. Its productions are similar to those of Westmoreland. The parish of Hopewell stretches along the shore of Chignecto Bay. Shepody Mountain (as the St. John from the S.W. The small river of that name ends in a lake, between which and the sea an opening has been made, to allow the tide to flow in and cover a large boggy tract with alluvium.

King's County has a mountainous aspect, populated. A pretty village in its vicinity being thickly interspersed by hills, steep is called after a Monsieur Believaux, who declivities, and narrow ravines walled in The western portion, with the by rocks. exception of the flourishing parish of Greenland Basin. The great Tantamarre marsh wich, is almost in a wilderness state. Kingis situated on both sides of the river of ston, the shire town, is situated on a peninthat name, and is one of the largest collec- sula, between the Kenebecasis Bay (a branch tions of fertile sea alluvium in British Ame- of the St. John) and Belle Isle Bay, and rica, being twelve miles long, and four miles communicates with the main-land, only in The overflowing of the sea is pre- a northern direction, where it adjoins the vented by dykes thrown up on the margin parish of Sussex; improvements are making of the river and across the creeks. West-rapid progress, particularly in the latter moreland extends from the boundary be- named place, which, from a forlorn and tween Nova Scotia and New Brunswick, dreary desert, has been rapidly transformed and across the peninsula. A swelling ridge into a lovely and luxuriant valley, smiling of land, called Point de Bute, separates a with abundant harvests and rich pastures, small stream called the Aulac, from the whilst roads, bridges, and public works attest Missiguash, and forms the boundary line the enterprising spirit of its inhabitants. The Kenebecasis river is navigable 20 miles now called Fort Cumberland, was erected on for vessels of any burthen, 30 miles for vesssels drawing seven feet water, and 30 more for flat-bottomed boats. It has four small branches, the Mill Stream, Smith's Creek, Salmon River, and Trout Creek, which afford facilities for transporting timber, and sites for flour and saw-mills. The parish of Westfield has numerous lakes and streams, and abounds with fine timber. The Nerepis, after passing for 12 miles through marsh and intervale land, falls into the St. John, which then bends abruptly to the N.E, and runs in a nearly direct line for 16 miles. This straight section of the river is called the Long Reach, and at its head are valuable quarries of excellent granite, which are now being largely worked.

Queen's County has on both sides of the St John, and is intersected by two important tributaries of that river, namely, the Washadamoak, the lower part of which may be called a lake from the stillness of its waters, and the Salmon, which empties itself into Grand Lake. This lake is a beautiful sheet of water, 30 miles long, and from 3 to 9 broad, connected with the St. John by a narrow and deep channel called the Gemsec (so often mentioned in the early histories of the province), and with French and Maguapit Lakes by channels opened through the alluvium forming the intervales. All these it is called) is the termination of a ridge of lakes and channels are navigable. Gagetown high land, extending along the boundary of (the shire town) is pleasantly situated at the mouth of the Gemsec, and is the shipping place for the produce of the district. Long Musquash and other islands in this part of the St. John, are planted after the subsidence of the spring freshets, and produce fine crops

The parish of Wickham has increased greatly 18: the streets are disposed rectangularly, within the last few years. The western some of them being a mile long, and, for the portion of the country is almost wholly un- most part, continuously built on with wooden The parish of Brunswick contains a few settlers at the north-eastern extremity, but almost its entire surface is courts of justice assemble), the court-house, shaded by a trackless forest; yet this part, and, indeed, the whole county, has great agricultural capabilities, besides possessing coal fields of considerable extent, and abundance of fine timber, of which it has furnished to the port of St. John large supplies for many years.

Sunbury County lies between Queen's and York, and like them crosses the St John. The parishes of Maugerville and Sheffield are considered the most productive tracts in the province, in consequence of their being annually overflowed. It is impossible to conceive a scene more luxuriant than they exhibit in the season of harvest; for upwards of twenty miles below Fredericton there is scarcely an unimproved spot on the banks of the St. John, through which run a chain of islets as fertile as the mainland. Burton and Lincoln parishes are situated on highlands, with valuable slips of intervale, the whole of which are in a high state of cultivation. At Maugerville the first British settlement in New Brunswick was planted. the mouth of the Oromucto, where there is now a large village, formerly a resort of the Indians, whose graves are sometimes exposed Shipby the operations of the plough. building, to some extent, is carried on here On the north and south branches of the Oromucto are many thriving settlements.

the St John for about 50 miles, and contains Fredericton, the capital of New Brunswick, which is situated in the parish of the same N side of the St John, is intersected by name, in 45° 57′ N. lat, 66° 45′ W. long, 85 miles distant from the sea coast at St John's. It was formerly called St. Ann's, and was made the seat of government by Sir Guy Carleton, in 1785 stands on a plain fronting the river (here claimed by the province of Canada, since three quarters of a mile wide), which, curving boldly, encloses it on two sides; on the S a range of hills two miles long and half a mile wide surround it; and from the opposite coast, the Nashwaak rolls its broad, and granted to provincial regiments disbanded sometimes rapid, stream into the St. John, in 1815. The lands of these settlements which to this point is navigable from the are well cultivated and exceedingly producsea upwards for vessels of 50 tons burtleen.

ter of an acre square, of which there are stream, with almost innumerable branches)

houses. The public edifices are the Province Hall (where the provincial assembly and barracks, government-house, library, church. chapels, and kirk, and many other structures. The population of the parish of Fredericton in 1840, was 4,002 souls; but the city of Fredericton alone, in 1847, was supposed, by Mr. Perley, to contain 6,000 souls.

Above Fredericton, are the parishes of Kingsclear on the S. and St. Mary on the N., both settled by disbanded soldiers. Queensbury parish was laid out originally for the Queen's Rangers, and has prospered well; but Prince William, settled by the King's American Dragoons, has not been equally thriving, the land being much less favourable. An average crop of oats in this county, of the best quality, is said to be 30 bushels to the acre; but in 1846, there were fields in and near Fredericton, which yielded 60 bushels to the acre. The land (comprising 550,000 acres), purchased from the crown by the New Brunswick and Nova Scotia Land Company, is chiefly situated between the St John and the SW branch of the Miramichi. The company have spent and another very early one was formed at large sums in making roads, clearing land, and building houses, mills, and bridges. The greater part of their tract is of excellent quality, much of it consisting of upland intervale, and they offer liberal encouragement to emigrants The town of Stanley, formed by this company, is, according to Dr. Gesner, yearly increasing in population and York County occupies the higher banks of prosperity It is situated on the borders of the Naashwaak, 35 miles above its confluence with the St John Douglas parish on the the Keswick River.

Carlton County includes all the upper part of the St John, so far as it flows through British territory A portion of it containing, The town by estimate, 2,700,000 acres, has been the settlement of the disputed boundary with the United States. The first parishes, after leaving York, are Woodstock on the W., and Northampton on the E., both At the north-western extremity of tive. Fredericton is laid out in blocks of a quar- Woodstock, the Meduxnikeag (a broad, rapid

the Tobique, 50 miles above, are more or less

in progress of cultivation.

Wakefield parish contains, and is surrounded by flourishing farms. The thriving village of the same name, 12 miles from Woodstock, is very picturesquely situated. The extensive parish of Kent comprises the of the St. John The Presqu'ile is a considerable stream; but from its numerous rapids, scarcely navigable, even for canoes Mars Hill, and receives the brooks descending from the side of the mountain. Mars Hill is about five miles and-a-half west of the river St. John, and one hundred from Fredto it, from the circumstance of its being the point fixed on by the British commissioners as the commencement of the range of highin length, with a base of upwards of four above the sea, and one thousand two hundred above the source of the St. Croix; near the summit it is almost perpendicular prospect commands a great extent of territory: immediately beneath stretch the vast forests, whose undulations, clothed with the funereal green of the fir, and the brilhant verdure of the birch, resemble stupendous waves, the more elevated spots rising above the others, like towers on the ocean. Bear Mountain and Moose Mountain. Blue name. native wild animals find a retreat, and the St. Lawrence and Chalcurs Bay. beaver lives in safety within his dwelling."

empties itself into the St. John; both banks of beech, birch, and maple. The mouth of of which, from Woodstock to the mouth of the Tobique is occupied by an encampment of Melicete Indians. The Aroostook falls into the St. John two miles above the Tobique, and, with its branches and contiguous lakes, will afford a water communication equal to four hundred miles in extent. teen miles above the Tobique, Salmon River (so named from its having formerly abounded remaining and least settled part of the course in that fish), flows into the St John. About five miles above are the Grand Falls The St John, in the midst of its stately course, is suddenly compressed into a narrow gorge, One of its branches bends along the base of three quarters of a mile long, flanked by steep and overhanging cliffs, from 100 to 150 feet high, at the termination of which. a ridge of rocks changes the hitherto unbroken volume into one vast body of turbuericton; and has a degree of interest attached lent foam, which thunders over a perpendicular precipice, 58 feet in height, into a deep vortex among huge black rocks, whence the river rolls out impetuously through a channel lands forming the boundary of the United still more confined in width than the previous The mountain is about three miles one, forming a succession of cataracts for about a half a mile, the picturesque effect miles, an elevation of two thousand feet being increased by crags of every form, which, in several places, shroud the water from sight. A sudden turn in the river, at the Grand Falls, forms a little pinnacle, on As it is the highest point in its vicinity, the which a pretty village has been built, which is interesting from its romantic position. The 1sthmus of the falls 1s one of the oldest military posts in the province; and since the settlement of the boundary question, the government has commenced clearing land and fortifying this important part of the frontier. Twelve miles above the fall, Grand The mountain chain, of which Mars Hill is River, enters the main stream, which, a few only an insulated point, pursues its course miles higher, receives the Madawaska, on to the northward, leaving within its range whose banks is an Acadian settlement of that The soil is fertile, and the population Mountain, near the Tobique, is the next is steadily increasing. It is stated by Dr. eminence of any considerable altitude in this Gesner, to include both sides of the St. portion of the Alleghany chain. In this John, from the Grand Falls to the mouth of county, the St. John receives its largest the St. Francis, upwards of 40 miles; and tributaries, the Tobique from the E., the he adds, that there are a few groups of farms Ristook or Aroostook from the W. About and clearings beyond these limits. Having eighty miles from its mouth, the Tobique briefly surveyed the counties bordering on divides into four branches. The extreme the Bay of Fundy, upon the St. John and sources of this river wind "among naked the United States frontier, we proceed to mountains far in the interior, where the examine those on the coast of the Gulf of

The New Brunswick shore, along the gulf Formerly there were large forests of the of St. Lawrence, is low and sandy, covered valuable white and red pine in the vicinity with trees of a stunted growth, and skirted of this stream, but most of them have been with extensive marshes, large deep mosses destroyed by fires. Spruce, cedar, larch, and long sand beaches, formed by the conare still abundant, and there are also groves flicting currents of the gulf, and the different

rivers that pierce the shore. The coast line of the magnificent Chaleurs Bay, which is 85 miles long, and from 16 to 30 broad. commencing in 47° 58' N. lat., 64° 30' W. long., is similar to the Gulf shore, but in several places there are perpendicular cliffs of some height.

Kent County, so named in honour of his royal highness the Duke of Kent, extends from Shediac harbour to the south extremity of Miramichi Bay, having about 50 miles of coast, with several small but good The settlements are chiefly confined to the Gulf shore and the banks of the rivers along the tide-way. The Acadian-French constitute a considerable proportion of the population, and have formed themselves into numerous compact villages. The Richibucto, on which is built the shire town of Liverpool, is about 65 miles long, and rolls into the Gulf of St. Lawrence, through a safe and capacious harbour, 43 miles S of Point Escuminac. In its greatest width at the entrance it is not more than a mile, and often does not exceed 200 mouth, affording a sufficiency of water for large vessels, canoes navigate to its source, but which flows for 80 miles to the S.W., the Grand Lake in Queen's County. The banks of the Richibucto, for nine miles from the sea, are low and sandy, but further inland the country assumes an easy and gradual elevation, indicating by a better growth of timber a more fertile soil. The Chebuctouche rises also in Kent County, is 36 miles long, falls into the gulf 20 miles to the south of Richibucto, and is navigable for schooners 12 miles from its mouth, to which extent the tide reaches This river is remarkable for its abundance of large and excellent oysters. The county is divided into nine parishes, two of them are quite uninhabited, and the others but scantily populated, yet much of the land is of good quality, and well adapted for the cultivation of grain. The whole surface is exceedingly level, and, on an average, its elevation does not exceed 20 feet above the The coast affords valuable fisheries. Herring and mackerel are sometimes so abundant, as to be employed in manuring the soil. In the parish of Dundas is the fine harbour of Cockayne; in that of Wellington is Buctouche harbour.

Northumberland County, although those of Kent and Gloucester have been taken from 1t, is still the largest in the province. The principal river is the Miramichi, which, 40 years ago, was only known to a few fur traders, and is now of considerable importance, owing to the timber trade and fisheries carried on by its hardy and enterprising inhabitants. The Miramichi falls into the Gulf of St. Lawrence in 47° 10' N. lat.. 64° 40′ W. long., forming at its estuary a capacious bay, enclosing several islands. Chatham, the county town, is situate on the south bank of the Miramichi. On the opposite banks are the towns of Newcastle and Douglas, which have, phœnix-like, risen from their ashes, they and other villages having been entirely destroyed in the terrific conflagration of 1825, (described in p 222.) Two miles below Douglas town, on the opposite side, is the prosperous village of Nelson, in the parish of that name. Seven miles above Chatham the Miramichi divides into two branches, one running S.W., and the other N.W. The tide extends about The tide flows 22 miles from its 15 miles up the SW. branch, beyond the point of junction, and the banks are settled nearly 45 miles from the tide-way, up to whence there is a small portage to the which point large-sized vessels can load and Salmon River, whose source is unknown, unload. from hence to the river Tauk, (45 miles,) small craft, lighters, and barges and falls into Salmon Bay, at the head of arrive from Chatham and Newcastle, and proceed through the New Brunswick Company's territory, for 40 miles further; the S W. branch of the Miramichi containing more water, from the junction of the Tauk when it again ascends to the northward, than the Thames from London upwards. The NW. arm of the Miramichi is more rapid and rocky, and consequently less navigable than the S W. branch · there is, however, little obstruction to canoe navigation for about 80 miles, to where it meets the tide, 17 miles above the harbour. The source of the S.W. branch is in the county of York, near the Tobique, 12 miles from the St. John the commencement of the NW. branch is not known, the country being there little explored. The former is about 189 miles long before reaching the latter (which is 100 miles in length), each of them receive several streams of from 20 to 40 miles long. The sea-coast of the Miramichi is low, but inland the country rises in some places, consisting of extensive and rich intervales, in others of a rugged rocky description. The country in general has scarcely yet recovered from the deso-

on the E. and S., and is bounded on the sea-coast and numerous rivers, this county wards of nine fathoms water. the most important. a perpendicular cliff 140 feet high, over fortress. with great violence. between Miramichi and Bay Chaleurs miles in circumference. When visited by shapes. and Caraquette Islands, are inhabited by Caraquette Harbour. The coast is low, flat, facilitate the coast navigation of small craft.

Ristigouche County occupies the most north- large portion is yet unexplored.

lating effects of the great fire, but the miles long, with a general course E.N.E.. establishment and operations of the New nourished by numerous tributary rivers and Brunswick Company will, it is to be hoped, streams, and forming, at its estuary, a large facilitate the settlement of so fine a ter- and commodious harbour. The entrance of the Ristigouche is about three miles wide. Gloucester County joins Northumberland formed by two high promontories of red sand stone, with a bold opening unencum-N. by Chaleurs Bay. From its extensive bered by bar or shoal, and containing up-Two miles has great facilities for fishing and lum- from the mouth is the town of Dalhousie. bering; but its soil and climate are both with a broad river channel six or seven fayourable to agricultural pursuits, especially fathoms in depth, which may be said to to the growth of grain. Bathurst (formerly extend for 18 miles, thus forming a safe and called St. Peter's), the shire town, is plea- commodious harbour for the largest class santly situated on a beautiful bay of the ships. About 116 miles from Dalhousie is same name. It was formerly the boundary the compact village called Campbelltown. between the Mohawk Indians of Canada At upwards of 200 miles from its embouchure and the Mic Macs of Nova Scotia, and was whither the tide flows, the Ristigouche is the scene of many a sanguinary conflict. above a mile wide, and from thence, to Four rivers empty themselves into Bathurst within 40 miles of its source, it is navigable harbour, of which the Nepisiguit is by far for barges and canoes. For 70 miles from This river descends Chaleurs Bay, the Ristigouche is flanked on from some lakes near the head waters of either side by two stripes of high but level the Tobique (with which it is connected land, extending generally a mile back with by a short portage), and flows in a deep a few prominent elevations, occupying the and broad stream for about 20 miles, when very edge of the water, and maintaining a its channel, which is of granite, forms position somewhat like the bastions of a The scenery in this county is which it descends by four leaps or steps exceedingly impressive; wherever the eye For the rest of its wanders nothing is to be seen but an almost course (about 80 miles) it is a rapid and incalculable number of lofty hills, intertumultuous stream, unnavigable except for spersed with lakes, rivers, and waterfalls, canoes and rafts. The parish of Saumarez glens and valleys; some of the mountains comprises the headland and islands situated are clothed with the tall and beautiful pine At —others sustain a fine growth of hard wood: the entrance of the bay are the islands of many have swampy summits, and several Shippegan and Miscou. The former is 20 terminate in rich meadows and plains: in miles long, has a tolerably fertile soil, and form some are conical, others exhibit conis inhabited by Acadian French; the latter, siderable rotundity; many lank and attenuforming the extremity of the cape, is 21 ated, and not a few of the most grotesque Sometimes the precipitous banks Mr M'Gregor in 1819, it was tenanted by of the river are 300 feet above its bed, and a disbanded Highland soldier and his family, at every bend, which is about once in six three of whom were drowned in attempting miles, the voyager is deceived with the apto cross to Shippegan. Miscou, Poksudie, pearance of entering a well sheltered lake; but at about 70 miles from the sea, the foxes; the two last form a safe entrance to country becomes comparatively level, and all the way to the head of the Ristigouche sandy, and lightly covered with spruce and fir is a fine, bold, open territory, consisting of for two or three miles inland. From Miscou a rich upland, skirted with large tracts of to Miramichi, and indeed to Shediac, the intervale, and covered with a dense and coast is skirted by large lagoons, some of them unviolated growth of mixed wood, in which twelve miles long by three miles wide, which large groves of pine are very conspicuous. This fine county is but very thinly settled, a erly portion of the province. The Ristigouche, ley, the active and intelligent government or Big River, which rises near Temisquata emigration agent for New Brunswick, in Lake, and is supposed to be more than 220 a Report dated the 10th of November.

field for emigrants:—"If the difficulties of sienite and trappean rocks—ten miles in attendant upon the settlement of a new breadth, and at a distance of ten miles from country be taken into consideration there the Bay of Fundy reaches from the Kennecan be no doubt that much has been effected becasis along the northern boundary of the in New Brunswick, within the brief period county St. John, to the new county of which has elapsed since its first settlement Albert. The Silurian rocks, which include by British subjects; yet all that has been red and dark-coloured flags and slates, sanddone is but comparatively trifling when stone, freestone, shelly, and compact limeconsidered with reference to the extent of stone, black and lead-coloured shales, concountry yet ungranted and uncultivated, and the abundant resources it possesses. sandstone are found in various places, gene-As a field for the pursuits of agriculture, rally running from S.W. to N E., and highly the prosecution of commercial enterprise, inclined. and the formation of flourishing settlements, this colony offers powerful inducements. It is blessed with a rich and productive soil; it abounds with trees of the greatest utility and value, and it is watered by innumerable rivers and streams. It rejoices in skies that are bright and cheerful, and a climate salubrious in the extreme, congenial to the growth not only of the necessaries but many of the luxures of life: above all, it has the happiness to enjoy British institutions and forms of government modelled upon their prototypes in the mother country, which secure British laws and British freedom to all its inhabitants."

Geology.-New Brunswick presents the same general course which the principal formations of North America assume, namely, a direction of the rocky strata from S.W. towards the N.E., or vice versa, or on lines parallel to the border of the Atlantic. spur of the Alleghany chain of mountains enters New Brunswick, crosses the river St. John, forms Mars Hill and other eminences, extends in a NE. direction to the sources of the Miramichi, and other rivers, and gradually disappears towards the Chaleur Bay. Another slightly elevated ridge crosses the Schoodic river and Cheputnecticook lakes, to the Bull Moose Hill in King's County. Mr. Gesner says, these elevations form anticlinal ridges, against which the stratified masses lean, or they border immense troughs, containing the secondary and tertiary formations. are chiefly composed of granite, sienite, trap rock, and porphyry.

In a country so little cleared, its minute geological features must necessarily be imperfectly known. A granite ridge crosses the Cheputnecticook river and lakes, and sends off a branch that finally reaches the rates, sandstones, shales, limestone, clay-iron St. John. Gramte also occupies large tracts in Northumberland and Gloucester, and ap-

1845, thus speaks of the province as a pears on the banks of the Nepisiguit. A belt retionary limestone, and grey micaceous

> Mr. Gesner enumerates the following as the principal useful rocks and minerals of New Brunswick :-

> Granite, siemite, roofing slate, porphyry, mica slate, talcose slate, limestone, hydraulic limestone, marble, alum slate, coal, graphite (or plumbago), ochres, iron ores (abundant), manganese ores, galena (or lead ore), grindstone, freestone, sulphuret of copper, amethyst, agate, jasper, hornstone, thompsonite, stilbite, apophyllite, hornblende, feldspar, chlorite, garnets, talc, asbestus, magnesite, carbonate of lime, sulphate of barytes, gypsum, potter's clay, fire clay, sulphate of iron, tourmaline, serpentine, iron sand, iserine.

Springs - Salt, sulphurous, carburetted hydrogen, ferruginous.

The Silurian rocks frequently contain organic remains, and in a section on the Ristigouche River and Chaleur Bay, Mr. Gesner noted the following features in descending order:-

Impure grey and blue limestone Calcareous and argillaceous shales Earthy rotten shale Wenlock limestone Compact blue limestone Friable sandstone Shelly limestone Compact blue and grey ımpure limestone black, blue, and red

shale Grey and brown sandstones Compact limestone

sandstone 22 Argillaceous and calcareous slates Coralline marbles Conglomerates Clay slate

ORGANIC REMAINS Producta spirifera, orthocera, trilobites Crinoidea, Cyathophyllum turbinum

Atrypa aspera, with numerous testacea and corals.

Producta, terebratula, Cya-thophyllum turbinum, Cyathophyllum hexago-

Encrinal remains

Tentaculites ornatus, producta, terebratula, co-

Encrinal remains. Corals

No organic remains No organic remains

The carboniferous series, viz.; conglomestone, coal, and trap, similar to those of the coal-fields of Great Britain, extend along the interior, especially at Westmoreland, are inclined in angles varying from 20° to 40°.

MINERALS.—New Brunswick possesses an extensive coal-field, which commences at Bay Verte, and crosses the 1sthmus between Nova Scotia and New Brunswick. It occupies the whole of the counties of Kent and Sunbury, the chief part of Queen's, York, and Northumberland, a part of Albert County, and nearly all Westmoreland: on its S. side it is 145 miles in length, on its N.E. about 110 miles the area is estimated at 7,500 to 10,000 square miles, or nearly one-third part of the whole area of the province. This immense coal-field presents a low and level surface, excavated by waterchannels, and, in general, not elevated more than 40 feet above the level of the sea. The coal, so far as known, is bituminous. variety of cannel coal has been found in Albert County. The contemplated line of railway from Halifax to Quebec would intersect this coal-field, and open a vast tract of country for settlers.

A deposit of copper ore has been discovered on the banks of the Nepisiguit River, in the county of Gloucester, by Mr. Stevens. The metal, a green carbonate, is seen cropping out at the surface, nearly in a horizontal bed, about eight inches in thickness. A specimen, assayed in Cornwall, produced 53 per cent of very fine pure copper. Mr Frederick Burr states, that the green carbonate is most singularly intermixed with. or disseminated through, a thin stratum of imperfect coal or lignite, much in the same manner that the metallic ores are usually blended with their accompanying veinstones. An approach may, however, be observed to parallelism between the carbonate of copper and the enclosing layer of coaly matter. The specific gravity of the ore differs, of course, in proportion to the quantity of copper contained in the specimen, which is generally full one-half of the entire mass, but appears to vary from rather more than two and-a-half to about three.

Both the upper and under surfaces of this remarkable bed are very distinct and well defined, exhibiting the fibrous and vegetable structure of the lignite. It is covered by a few feet of alluvial soil, and rests on a thin stratum of conglomerate, containing rolled pebbles, which, at this point, covers the prevailing formation of the tract, a reddish sandstone, which probably rests upon the

coast in nearly horizontal strata, and in the seen within about half a mile of the spot. Clay slate is also known in the same neighbourhood, some of the beds being used for roofing.

It is well known, that water charged with copper in solution, is, by the introduction of iron, made to precipitate the metal. The deposit of lignite occurring with the copper, is evidently derived from drifted vegetable matter; and from the mode in which the copper is interspersed throughout the mass, it would appear that the water on which it floated was, at the same time, saturated with a solution of copper, and that both the organic and mineral matter subsided to the bottom together, forming the singular compound now under consideration, and over which, probably, at a subsequent period, the alluvial covering was drifted.

Fossils are numerous in the coal-fields of New Brunswick many are of great size. "In general," says Mr. Gesner-

" Every vestige of their leaves has disappeared, and nothing remains but the simple impression; but sometimes the leaf is seen in a thin paper-like lamina of coal, and even in the centre of clay-ironstone balls every fibre of the original vegetable texture is beautifully delineated.

"The fossil trees are of different kinds, and occur under a variety of circumstances At the South Joggins, on the shore of Cumberland Basin, and in the face of a cliff, they are situated at right angles to the planes of stratification, or stand perpendicular to the strata; and as their roots are sometimes found attached, they evidently flourished on the spot only relic of the former living tree is the bark, which has been converted into coal, and still bears the ori-ginal flutings, furrows, and leaf-scars of the plant. The cylindrical trunks have been filled up with sandstone, shale, &c., and now represent the original trees in solid stony columns, from 20 to 60 feet in length, and sometimes upwards of 4 feet in diameter.

In New Brunswick these fossil trees lie prostrate in and between the strata, so far as they have yet been observed In some instances they have been changed into coal; in others, this change has been partial, and parts of many trunks on the shores of Chignecto Bay are composed of sandstone, iron yrites, sulphate of barytes, and other minerals. At Bathuist, Carriboo River, and other places, the trees have been mineralised by copper, and their trunks have been worked out of the rocks and disposed of for copper ore, yielding 75 per cent. of pure metal. Large stems are found composed altogether of sand-stone, apparently run in a mould like that of the iron-founder. In some of the large stems the ligneous fibre remains perfect and distinct: these are often mineralized by sulphate of barytes, or calcareous spar; they resemble rotten ash, and split length-wise very readily. There is still another variety of large fossil trees in which the whole of the trunk has been changed into a compact lignite: the original bark now appears in coal, and when removed from the fossil, the tree resembles a peeled oak.

grante which Mr. Stevens describes as being quently found with their leaves attached and ex-

tending in all directions from their trunks into the shales and sandstones. Lepidodendra, calamites, sigillaria, asterophyllites, Pecopteris lonchitica, and other well-known fossils, are abundant. The fireclays beneath the coal are most frequently loaded with stumaria, as observed by Mr W E Logan in South Wales, and in the underlays of the coal of Pennsylvania. Among the coal-bearing strata there are sometimes thin layers of limestone containing shells, of which the modiola and cypris are most common; with them fossil fish have been found these remains are of fresh water, and occasionally of marine origin. Sulphurous springs are common in the coal-field, and their waters are used by the inhabitants in the cure of cutaneous diseases

There are 19 limestone quarries in St. John's, and 2 in Carleton. Freestone quarries-2 in Westmoreland; 1 in King's County; 2 in Sunbury; 3 in York; 1 in Carleton; 4 in Northumberland; 3 in Gloucester, 3 in There are 7 grandstone quarries in Westmoreland, and 2 in Northumberland, a slate quarry in Gloucester, 2 coal mines in Queen's, and 1 in Westmoreland, a man-portions of the North American continent, ganese mine in Gloucester, and a salt manufactory in King's county

classes into which rocks are divided, viz, stated in Nova Scotia, afford various soils, differing from each other in their chemical combinations, and adapted to the growth of freezing effect by currents over New Brunswick, generally covering plains that would otherwise have melting of the snow is retarded in spring, been far less favourable to vegetation counties of Charlotte, St John, and King's, in the open and cultivated country. contain tracts of grante, sienite, and trap climate of the coast, which is humid, differs rocks, which, when decomposed and finely pulverized, yield wheat, oats, potatoes, and Indian corn. The trap rock soil contains 23° below zero to 88°, at Frederickton from much potash, and almost always produces 35° below zero to 95°. The climate of New hard wood, such as beech, birch, oak, maple, ash, and butter-nut

Kent and Sunbury have a rich, mellow covering of earth Along the coast of the Bay of Fundy the soil produced from greywacke or grauwack, talcose slate, and limestones, yields groves of cedar, fir, spruce, hacmatack, and small pines, with laurel bushes and The following table and the appended remarks cranberry bogs. The soils derived from lime- indicate the extremes of temperature, the stones, gypsum, conglomerates, red marle daily average of temperature, the prevailing sandstone, and shales, are very fertile, and winds and weather throughout the year:-

of various degrees of tenacity. The alluviums forming the best intervales, are a dark brown mould, from 1 to 20 feet in thickness, and never require manure. They are called "beaver meadows," from having frequently been formed by these industrious animals constructing dams across the rivulets to supply water, where they could be protected from their enemies. From the American frontier across the river St. John, between Woodstock and Madawasca, in a NE. direction to the Ristigouche and Chaleurs Bay, a superior soil is derived from the extensive groups of calcareous, argillaceous, and silicious rocks. The shores of New Brunswick contain abundance of marine plants and shells, which furnish excellent manure, and some of the soils where slightly subjected to the action of fire when burning off the timber, are thereby improved.

Climate - New Brunswick, like other partakes of the extremes of heat and cold; the thermometer sometimes rising to 100° Soils vary according to the two great F during the day, and falling in the forest during the night of the same day to 50°. those formed by the agency of fire, or of The North Pole, overspread to a vast extent The disintegration of these rocks as with perpetual ice and snow, sends forth a W and N.W. wind, which, even in the hottest months of the year, produce a freezing effect The S. wind is always various vegetable products. There are ex- warm, a SW. wind produces during the tensive deposits of alluvial matter scattered summer, dense fogs along the shores of the Bay of Fundy, which do not extend above from N. towards the S, often far distant 15 or 20 miles into the interior, where they from the place whence they were separated are dispersed by the warm air. A shift of from the mountain rocks. In Westmoreland, wind during winter or summer, will produce Sussex Vale, and the Grand Lake districts, in 24 hours a totally different temperature; there are red and claret-coloured soils, and wherever the land is not cleared the The and the ice appears in autumn sooner than from that of the interior, which is dry. At St John's the range of the mercury is from Brunswick differs but little from that of the state of Maine, Eastern Canada, the north shores of Lake Huron, and part of the M1chigan territory In summer, twilight is seen after nine o'clock in the evening; and daylight begins at two in the morning. The Aurora Borealis is brilliant at all seasons.

Meteorological Tu				Brunswick,
Lat	45° 57'	, Long. 66° 4	5'.	

	Fahrenheit Thermometer				Days of Wind				Days of Weather			
Monthly	Highest	Lowest	Dauly Average	Greatest	E	s	w	N	Variable	Fair	Rain	l og
January February March April May June July August September October November December	22 29 36 44 49 50 73 75 66 2 53 34 16	12 19 30 36 44 ¹ 46 ¹ 58 ¹ 42 28 11	17 24 33 40 37 48½ 65⅓ 69¾ 61¼ 47½ 31 13½	24 34 20 14 10 28 14 12 16 20 16 24	2 23 12 20 19 20 17 17 14 11	2	7 4 5 11 7 10 7 10 8 -	6 2 - - 2 4 2 - 14 14		23 22 22 18 15 18 23 17	2 1 2 7 8 6 3 8 5 7 8	2 - 5 9
$\left. egin{array}{c} \mathbf{Meanand} \\ \mathbf{Total} \end{array} \right\}$	45½	373	418	22	159	17	87	44	58	245	52	47

1st The severest cold of the winter usually continues from the 21st of December to the 21st of March, when the common range of the mercury is at sunrise between 20° and 19°, and at two p m between 5° and 30° though changing towards the middle of March, to 37' and 43° in the heat of the day. It is worthy of observation, that there are, during this season, fifteen days in which the mercury remains below 14°, and only five days in which it does not freeze: a remarkable instance of the severity of an American winter in latitude 46°, which is the parallel of the central parts of France, and the north of Italy.

2nd From the 21st March to the middle of April, the thermometer ranges at sunrise between 19 and 35°, and at two, p.m. between 35° and 46° From the middle to the end of April, a great increase in the temperature is evident although it sometimes freezes slightly in the mornings, yet the mercury frequently reaches to 55° and 64° in the heat of the day.

3rd During May, the mornings continue cold, (being in five cases below freezing, and only two at temperate,) yet the change in the temperature at mid-day is remarkable, being often 62° and 72°

4th. June, July, and August are very similar in their temperature. The range in the morning is commonly from 55 to 66, and at mid-day, from 71 to 84. In these three months, and until about the 15th September, the thermometer is, during thirty-eight days, at two p m above summer heat, exhibiting a singular contrast to the extreme cold of the winter, such as is scarcely to be found in any other part of the world.

5th. After the middle of September there is a rapid decrease in the heat of the mornings The thermometer in October at sunrise, on eight or ten days, is below freezing From the 15th or 20th November to the same time in December, it freezes regularly, though not severely, in the mornings In the latter month indeed, it mostly remains below freezing

The prevailing summer winds are from the WS W. and South.

The winter season is firmly established at tricts; if the end of December or beginning of January, but the deepest snows fall in February, 24 year or early in March, to the depth of 8 to 12 change.

inches, when boisterous storms sweep the snow with great fury along the face of the open country, leaving some places bare, and raising in others immense drifts or banks. These violent storms seldom last more than The vernal equinox one or two days. generally brings strong gales from the S., accompanied by a thaw. Ice disappears in the bogs, lakes, and rivers, soon after the first of April, ploughing begins at the end of the same month, when summer wheat and oats are sown; in May vegetation rapidly advances, gardening is commenced; potatoes are planted, and barley sown before the end of May. Turmps are sown in the middle of July, when hay-making commences. Barley is reaped in August, wheat and oats in September. Potatoes and turnips are left under ground until the middle or end of October, and parsnips are best if not dug up until spring. Cucumbers, salads, cabbages, cauliflowers, asparagus, and indeed all the culinary vegetables known in England, arrive at perfection, as do also apples, peaches, pears, plums, damsons, currants, gooseberries, strawberries, and raspberries Grapes when sheltered ripen in the open air. These products indicate that the climate offers no impediment to emigration.

Mr. Hooper, after 13 years' experience in the North American colonies, speaking of New Brunswick, says:—

"The climate is yearly meliorating its rigours, the winters are by no means so severe, or of the same duration, as ten years since, and the reason, to a philosophical mind, is obvious The rapidity with which settlers are clearing the forest, and opening to the light of heaven the face of the earth, gives to the sun's influence a much greater space of country annually, and, as a natural consequence, the snows melt more early and rapidly, the winters are consequently shorter than formerly Twenty years since, the winter commenced early in November, and con-tinued generally till the end of April, making nearly a six months' winter, but within the last five or six years there has been no dead winter until Christmas, and the spring has usually opened in the early part of April, making the winter of little more than three months' duration It cannot, with all the variations of climate, be said with propriety that the full duration of winter is more than four months. Though the cold is intense for nine or ten weeks, the air is dry and elastic, and free from the chilling moisture of a British winter.'

The remarks as to amelioration of climate must be considered applicable to the interior, rather than to the sea-coast or adjacent districts; for the following table of the opening and closing by ice of the river St. John for 24 years, does not indicate any favourable change.

Opening and Closing of St. John River at Fredericton.

Орен	ny un	u C	woney	y	Ju. 01	one ittee at it read actor.
Years	Opene	d	Closed		Days open	Remarks
1825	Apr	15	Nov	20	219	
1826	-	17	11	14		
1827	"	6		3		
1828	**	20				
1829	"					
1029	"	17	99	15	212	(7) 00 1 1
1830	,,	18	,,,	29	226	Dec 26, moved and closed again.
1831	,,	10	Dec.	1	235	Dec. 6, opened and closed; Ap 10, ice jam
1832	May	3	Nov.	15	199	Nov. 19, moved; 22, closed.
1833	Apr	10	,,	5	219	Nov 19, opened; 29,
1834	-	11		17	220	Nov. 16, men crossed
1835	May		"	23		140v. 10, men crossed
			"			A 01
1836	Apr.	28	"	19	205	Ap 21, moved, 24, jam
1837	,,	17	,,	9		Nov 24, opened and closed.
1838	May	1	"	25	208	
1839	Apr	25	99	23	236	Nov 25, moved, Dec 19, closed.
1840	,,	16	99	23	221	
1841	,,	27	,,	2 7		Nov. 27, Steamer Fred- ericton sailed
1842	"	24	27	22	212	(
1843	,,	26	,,	14	202	Nov 21, moved, Jan 21, moved.
1844	٠,,	14	,,	27	227	ŕ
1845	,,	23		4	225	
1846	1	6			236	Mar 29, moved, ice jam
1010	"	·	1,00	-0	230	(Nov 24, opened, Dec
1847	,,	2	"	20	254	15, Steamer arrived, Dec 16, closed again
1848	,,	19	,,	13	208	

Note —The average period during which the river remains open is 218 days it will, therefore, be shut 147 days, or two-fifths of the whole year In 1832, the river was open for the shortest, and in 1847, for the longest period of which we have any notice

But whatever may be the duration of winter, or the heat of summer, the salubrity of the province is unquestionable. In the Journal of the House of Assembly for 1846, there is a return of the pensions allowed by the province to old soldiers and their widows during the year the number thus pensioned from the revenues of New Brunswick is small: but the longevity of the pensioners is remarkable. The return is dated March, 1846, is made for each county, and gives the name, residence, and age of every pensioner In Carlton County, 20 pensioners—one of 112 years of age (George Sinnett); one 98; one 92: and the others averaging from 70 to 90 York County, 36—three of 90 and upwards; known in England as the Weymouth pine, 11 of 80 and upwards; 12 of 70 and up-Charlotte County, 36 - one 101 years of age (Susanna Watman); 16 ranging from 80 to 97 years of age; and 12 from 70 upwards. The other counties present similar situations it is feathered to the ground, and

instances of longevity, such as would not probably be found in any other country among an equal number of persons of the same class. The salubrity of the climate is thus forcibly attested.

The autumn in New Brunswick, as in other parts of the North American continent, is a season of great beauty and delight. Every tint of colour is observable in the woods, the air is dry and clear; and in November that peculiar change termed the "Indian summer," with its serenity and blandness, its expansive and brilliant aurora at night, and highly charged electrical state of the earth, breaks what would otherwise be a long winter. Shocks of an earthquake were felt in 1663, in 1827, and in 1839. Diseases are few and comparatively simple.

VEGETABLE KINGDOM.—Timber Trees.— The lumber trade is so considerable a source of wealth, that a brief description of the principal forest-trees of British America may be useful For more detailed accounts. Sir A B Lambert's splendid work on Amemean Pines, Mr Perley's "Report," and the Canadian Naturalist, by Mr. Gosse, may be advantageously consulted. The chief American timber for commercial purposes is of the genus pinus, which includes the resinous evergreens termed pines and spruces, mostly to be found between the 43rd and 50th parallel of latitude in great perfection, where they generally cover the low grounds and valleys, forming what is termed "soft woodlands " Among the principal of this class are the white pine (pinus strobus); the red pine (pinus rubra), the black pine (pinus nigra); heinlock (pinus Canadensis); the spruce (pinus nigra and alba), the balsam, or fir (pinus balsamea); the tamarack (pinus pendula), the cedar (thuya occedentates) About ten species of pines exist in Canada, New Brunswick, Nova Scotia, Prince Edward's Island, and Newfoundland. The difference between the pine and the spruce is in the arrangement of their foliage In the pine, two, three, or five thread-like leaves are united in the same sheath. in the spruce, the shorter leaves are attached singly round the branch, or upon its opposite sides

The pinus strobus, or white or yellow pine, is a majestic and beautiful tree, of which some specimens have been found on the Columbia river, 250 feet high, and 50 feet in circumference. When growing in open

The age these trees attain is not known. nearly three-fourths of its height the trunk few upright branches. The wood is soft, part of the pews are in a similar state." light, of fine texture, easily wrought, durwood is harder, of a coarse grain, and marked by more distinct concentrical circles When seasoned, it may be thus compared with the larch and spruce, taking for a standard the everywhere 3 feet in diameter oak at 100:-

Woods.	Weight of a cubic foot		Strength	Toughness
White Pine American Larch Lluck Spruce	lbs 28 35 to 41 29	95 79 72	99 103 86	92 134 102

The white pine is equally adapted to furnish masts for the largest ships of war, or to be applied to the most ordinary purposes in our dwellings. If properly seasoned before use, it has no tendency to dry rot; and the unqualified assertion, too frequently made, that all British American pine is bad, and all Baltic timber good, is not supported by facts

granary of four floors, of 9,200 square feet moisture many years in area, and which contains about 9,000 has now stood 20 years, and is stated to bracts fiddle-shaped.

rises in the form of a pyramid. In Canada both in England and America, has shown, and New Brunswick it is occasionally found that when used for outside purposes, it 150 feet high, with a diameter of five to six should be allowed to dry thoroughly before feet, at three feet from its base. In New being painted; and that unless sufficient Brunswick and Nova Scotia the white pine time be given for the vegetable juices to is the first tree to take possession of barren, evaporate, white pine will suffer from the deserted lands, and the most hardy in re- dry-rot in the same manner as other timber sisting the impetuous storms of the ocean. under like circumstances. An instance is mentioned of a church in Hertfordshire 1,500 annular divisions have been counted. being fitted up with the choicest oak, and The colder the situation the slower the instantly painted with several coats before growth, and the harder the timber. For the vegetable principle had exuded. In a very few years, the beautiful work in the is single, the limbs short, and disposed one chancel was obliged to be taken down, perabove another, the head is formed by a feetly rotten; and, at this time, the greater

The value of this description of pine for able, and not liable to split when exposed to masts of large ships is very great. In the sun On dry and elevated lands the Murray's "British America," mention is made of two masts for 74-gun ships in the dockyards at Plymouth, which measured 108 feet in length, and a roller that was tree must have been 200 feet long, with a diameter of 5 or 6 feet

It is essential to the durability of timber that it be cut at the period of the dark moon. There appears to be an ascent and descent of some sap or vegetable life in trees thirteen times in the year, rising and This has been waning with the moon specially noted with timber growing in tropical countries. The American government are so well aware of the influence of the moon, that the timber supplied for their ships of war is required to be girdled or felled at the dark moon, between the 20th October and 12th February. White pine logs, if stripped of their bark, will remain uninjured thirty years; if not, they are Mr Perley states, that at "one of the attacked by large worms Stumps left in public docks in England, a very extensive the ground resist the influence of heat and

Larex Americana.—A larch—hacmatack quarters of grain, has been built entirely of the Indians—tamarack of the Dutch of colonial white pine, with the exception termed also pinus larix. Leaves deciduous, of the uprights, which are of red pine. It cones oblong, margin of the scales bent in, Mr. N. Gould, an be in every respect perfectly sound and American merchant of high scientific acunwarped. It was allowed to remain five quirements, who has travelled extensively years to dry before painting, and up to this in the United States and British America. time has been painted but thrice. The informs me, that the hacmatack grows genearchitect states, that he considers it likely rally throughout the North-Eastern States to stand 90 years. An extensive outside of the Union and British America, but is sence of white pine was put up in England found in the largest quantities in New 23 years since, and is still perfectly sound; Brunswick, Nova Scotia, and Prince Edward it also was allowed to remain five years Island. The timber is straight-grained and to dry before painting. All experience, fitted for small spars of ships; Mr. Gould, however, mentions having the mainmast of a vessel of 659 tons made of it—and states of the American larch is superior to any that it works roughly-is rather given to warp species of pine or spruce, and unites all the colonies it is generally used as a building species, being exceedingly strong and singutimber. both for houses and small craft; it is larly durable." Tredgold says it is extremely particularly approved for knees to fasten the beams of ships, and the butt of the stem, one of the principal roots forming the angle considered to be of very superior quality. used to any extent, but for house and shipsawn into deals, but never shipped as hacmatack deals, being occasionally called juniper, or red spruce, though more generally confounded with spruce and hemlock, and shipped as inferior goods. Hard working and warping deals, however valuable on the score of strength and durability, are not esteemed in the home market, where softness of grain, freedom of working, and absence of warping, have given a preference to the white or yellow deal of America. The wood burns with a crackling noise, and though not so easily ignited as most of the pine tribe, when once blazing, burns with great briskness, giving out fervent heat; United States to none but teak or British oak, and excepting in one instance, (the British Merwhile the larch has remained perfectly free

on the pines, describes two species of Amer- wood of the larch tree is said to be much ican larch—larix Americana and larix microcarpa—the latter characterised by smaller in spring, and felling them late in the aucones and more drooping branches. Mr the distinction, and larix microcarpa is not not readily absorb water. the resinous trees. vears; but, judging from the number of felled seem to attain even a greater age in New sary Brunswick.

Michaux the younger says, "The wood -is hard, strong, and very durable. In the properties which distinguish the European durable in all situations, failing only where any other wood would fail. Tiberius caused the Naumachiarian Bridge, constructed by Treenails made of it are also Augustus, and afterwards burnt, to be re built of larch planks brought from Rhætia. It is not a timber of commerce, nor is it Among these was a trunk 120 feet in length, which excited the admiration of all Rome. building in the colonies. It is sometimes Wribeking, in his celebrated work on bridges, says that larch is preferable to the pine, the pineaster, or the fir, for constructing the arches of wooden bridges. parts of Kamschatka it arrives at a considerable size, and is there used for ships. which last extremely well. Painters, from the time of Pliny to that of Raphael, trusted their works to this wood, which the Roman naturalist styles immortale lignum. For ship planks it is much used; and few descrip tions of wood, if any, are superior to it for this purpose. It is exported largely to Great Britain for railway sleepers, for which it would seem to be admirably adapted, not only from its strength and durability, but beand, therefore, in great request for the fuel cause it bears the driving in of bolts and of steamboat engines in Canada and the nails better than any other kind of resinous Colonial vessels built of wood It is peculiarly adapted for flooringthis wood are notoriously durable, inferior boards in situations where there is much wear, and for staircases; in the latter, its fine colour when rubbed with oil, renders it chant.) there is no record of such vessels greatly preferable to any painted wood, not having been destroyed by dry rot; whilst for reasons of economy alone, but also from in several cases, the oak and other ma- its appearance. It is equally well suited on terial surrounding, and attached to the hac- the same account for doors, window shutmatack, has been found destroyed by dry rot, ters, and many other purposes. It makes excellent treenails, little, if at all, inferior to Sir A B. Lambert, in his splendid work those of the acacia, or locust tree. improved in hardness by barking the trees tumn. The wood becomes very hard by Perley thinks there is no real foundation for seasoning, burns with difficulty, and does It is stronger now considered a distinct species, but merely and much tougher than oak, but not so a variety of the larix Americana, the differ- stiff, and it has been recommended by ence being occasioned by the influences of Tredgold that, with a view to improve the soil and situation, which so much affect all stiffness of the wood for joists and beams. Linnæus states that further experiments should be made of farch trees live to the age of four hundred barking trees some time before they are years; but, judging from the number of felled From the form of the tree, barking concentrical circles in large trees, they would could be easily accomplished as far as neces-

The Duke of Athol's celebrated larches

were planted in 1736. said to have contained 368 feet, or seven years. price of Baltic fir (pinus Silvestris, or Scotch fir), would be worth about £43. The duke who planted them was buried in a coffin made from the largest, which measured 106 He planted about 8,000 feet in length. acres with this tree, in the neighbourhood of Dunkeld and Blair Athol.

In Switzerland the larch abounds, and the dwellings of the peasantry attest its durability as a building timber. The Romans when first acquainted with the larch, during their German wars, lost no time in bringing it down from the Alps by the river Po, thence to be conveyed to Rome for building purposes. Vitruvius bears evidence of its value, as building timber. Pliny says, "This tree is the best of the kind that bears rosin; it rots not, but endures a long time." And this assertion of Pliny's is well borne out by what is stated as a fact—that the immense floating palace or ship, built by the emperor Trajan, as a summer residence on Lake Nerni, of cypress and larch, having been weighed up, the timber was found sound after 1,400 years' immersion. It is worthy of remark, that this vessel appeared to have been sheathed with lead, fastened with copper nails, double planked, and caulked with linen rags, payed over with Greek pitch (asphaltum). In Russia, whilst the exporta tion of oak is permitted, the larch is a government monopoly, for the national purpose of ship building, and its exportation prohibited. Of the applicability of larch to purposes of ship building, and of its durability, we find the following notices:-" In the year 1809, larch timber, grown by his grace the Duke of Athol, was first used for the British navy in building, at Woolwich dock-yard, the Serapis store-ship; the Sybille frigate; the bottom of a lighter; and for piles driven into the mud alternately, wet and dry; and in all the various situations, proved a strong and durable timber." The Athol, of twenty-eight guns, was also built entirely of larch of the same growth; and, at the same time, the Niemen, of Riga timber. After their first courses of service they were both examined, when the Niemen was found in a decayed state, and condemned sound; and she has ever, from that to the

In 1831, at 95 present day, endured the incessant wear and years of age, one of the Athol larches is tear of a store-ship, in every climate for 30 It was also observed, that during loads eighteen feet, which, at the present the period that this timber lay in Woolwich dock-yard, exposed to the weather, neither the heart nor the sap-wood exhibited decomposition, nor did lichen or fungus grow thereon.

Pinus Nigra — The black spruce, sometimes called red spruce, most abundant between the parallels of 44° and 53°, constitutes a thin part of the forests of New Brunswick, and of Prince Edward Island, grows 70 to 80 feet high, with a diameter of 18 to 24 inches, regularly diminishing from base to summit. Leaves four-sided, scattered on all sides of the branches, erect, straight, cones ovate, scales oval, with undulated margins, close-toothed at the apex, trunk smooth, (that of the pines is rough) branches horizontal, not declining like those of the true Norway spruce; distinguishing properties, strength, lightness, and elasticity. It furnishes fine yards and topmasts, and is frequently used for the knees of vessels, which are formed of the base of the trunk and one of the principal roots, and are said to possess great strength and much durability. many, the wood of the black spruce is preferred to that of the white pine; for flooring, it furnishes the spruce deals of commerce, which now constitute one of the largest and most valuable exports of New Brunswick These deals are of the uniform thickness of 3 inches, not less than 12 feet in length, and 9 inches in breadth The most usual dimensions are 9 and 11 inches in width, and lengths of 12, 14, 16, 18, and 21 feet Spruce battens are 12 feet long, 7 inches in width, and 2½ inches in thickness. manufacture of spruce deals commenced in New Brunswick about the year 1819, and has since been increasing. The erection of steam saw-mills within a few years, has greatly increased this branch of business. and enhanced the value of spruce logs.

From the young branches of the black spruce is made the salutary drink known by the name of "spruce beer," which in long voyages is found an efficacious preventative of scurvy. The twigs are boiled in water, a certain quantity of molasses or maple sugar is added, with a little yeast, and the mixture is left to ferment. The essence of spruce is accordingly, whilst the Athol was again put obtained by evaporating to the consistence into commission, and after a second course of an extract, the water in which the sumof service again examined, and again found mits of the young branches have been boiled

The leaves and buds of the black spruce

are not known to be eaten by any living white pine, or in small tracts by itself. Dr. thing except the "spruce partridge," which picks the buds in the spring of the year, from York Factory to Point Lake, in 65° N., whence it derives its name, and its bitter flavour.

Abies Alba, the white spruce, is found in the same countries as the preceding, but not quite so far north. From the unpleasant smell of the foliage, it is sometimes called

"cat" spruce.

The leaves of both encompass the branches. but those of the white spruce are less numerous, longer, more pointed, at a more open angle with the branches, and of a pale bluishgreen; the cones are also peculiar, being of a lengthened and oval form, above 2 inches in one direction, and 6 or 8 lines in the other; the dimensions vary according to the vigour of the tree, but the form is unchange-Scales loose and thin, with entire edges unlike those of the black spruce; the seeds are rather smaller, and ripen a month earlier; trunk more tapering than the black spruce, inferior in stature, rarely exceeding 50 feet in height, and 16 inches in diameter at three feet from the ground; bark lighter coloured. Wood used for the same purposes as the black spruce, but inferior in quality. Fibres of roots used by the Indians for stitching their bark canoes. Branches not used for beer on account of their unpleasant

Both the black and the white spruce are easily propagated by their seeds, or by transplanting into proper soils; they afford one of the most dense and compact screens, or shelters from the wind, that can be made by trees. They are cleanly, comparatively of slow growth, durable, and live to a great age. They abound in thick masses, of stunted growth, on the rocky shores and inlets of the Bay of Fundy. Their fine dark green, conical tops, contrast strongly with the snow during the cold season, and they form one of the most striking characteristics of a winter scene on the seaboard, hving and thriving as they do, where other trees could scarcely obtain foothold, and seeming to bid defiance both to the ocean and the storm, even during a combination of their utmost strength. The white spruce was the most northerly tree seen by Dr. Richardson on the Coppermine River, within 20 miles of the Arctic Ocean; it attains a height of 20 feet.

Hudson's Bay people the Juniper, extends tree is probably derived. parallel; it is chiefly found mingled with the an inch in diameter, and always directed

Richardson found it in swampy situations, but very dwarfish, seldom exceeding 6 or 8 feet in length. The leaves are of dark green. in pairs, 5 or 6 inches long, and collected in bunches at the extremity of the branches; flowers bluish the first month of their appearance; cones ovate, come, rounded at the base, about half as long as the leaves, without thorns, scales dilated in the middle, shed their seeds the first year; height of trees, 70 or 80 feet; diameter, 2 feet and upwards, trunk uniform in size for two-thirds of its length. Wood, a fine compact grain, heavy from the resinous matter with which it is impregnated; highly esteemed for strength and durability in ship-building. Deck planks have been procured 40 feet in length without The Canadian red pine differs from the Norway pine, with which it is sometimes confounded, the Norway pine is a species of spruce.

Abres Canadensis — Hemlock spruce is found as far N. as 51°, and is natural to the coldest regions of North America; leaves, 6 or 8 lines long, flat, numerous, and irregularly disposed in two ranks, and downy at their unfolding. Height, 70 to 80 feet; diameter, 2 to 3 feet, uniform for two-thirds of its length; and if the concentric circles in the wood are to be considered as an indication of age, it requires two centuries to reach full growth. It is used for sleepers of railways, for wharfs, or mines, where it is constantly wet; and for lath-wood. The

bark is extensively used in tanning.

Abies Balsamifera—Pinus Balsamea.—A beautiful evergreen tree, in open situations feathered to the ground, and rising in a pyramidal shape to the height of 30 feet or more, and on these accounts, much planted for shrubbery and park scenery in Great Britain. The body tapers from a foot in diameter at the surface of the ground, to 7 or 8 inches at the height of 6 feet. When standing alone, and developing itself naturally, its branches, which are numerous and thickly garnished with leaves, diminish in length in proportion to their height, and form a pyramid of perfect regularity. The leaves are 6 or 8 lines long, and are inserted singly on the sides, and on the top of the branches; they are narrow, rigid, and flat, of a bright green above, and a sil-Pinus Rubra.—The red pine, called by the very white beneath, whence the name of the The cones are from beyond Lake Superior, to the 42nd nearly cylindrical, 4 or 5 inches long, and upwards; this characteristic also belongs to hard, and do not open to release the seeds the silver fir of Europe, and distinguishes these species from others of the fir tribe. whose cones are turned towards the earth The famons Canada Balsam is procured from this tree, it is found in small blisters or vesicles in the bark, extracted by incision, and received in a limpid state, as a greenish transparent fluid, acrid, into a shell or cup The Indians use it for fresh wounds, and also take it internally. Perhaps there is not a better varnish for water-colour paintings, than that which is prepared from this liquid resin. The branches of this, as well as the hemlock, are used by the Indians, and Canadian voyagers, to sleep upon. In their winter voyages, they scrape the snow into kind of snow wall on each side of their lair, then strewing the ground with young branches, properly laid down, wrap themselves in their blankets, and thus sleep, when the thermometer is many degrees below zero.

Pinus Banksiana or Rupestres -The gray chipû, or scrub pine, is found farther N than any other pine. Michaux says, "in the environs of Hudson's Bay, and the great Mistassin lakes, the trees which compose the forests a few degrees farther S., disappear almost entirely, in consequence of the severity of the winter, and the sterility of the wrought The face of the country is almost everywhere broken by innumerable lakes, and covered with large rocks, piled upon each other, and usually overgrown with large black lichens, which deepen the gloomy aspect of these desolate and almost uninhabited regions. Here and there, in the intervals of the rocks, are seen a few individuals of this species of pine, which fructify, and even exhibit the appearances of decrepitude, at the height of three feet One hundred and fifty miles further S., its vegetation is more vigorous, but it is still not more than eight or ten feet high: and in Nova Scotia, where it is confined to the summit of the rocks, it does not exceed this stature" The leaves are united in pairs in the same sheath, but disseminated over the branches, instead of being collected in bunches at the extremity, about an inch long, flat on the interior, and rounded on the exterior face The cones commonly in pairs, of a gray or ashy colour, about two inches long, always point in the same direction as the branches, natu-

until the second or third year.

A pine of gigantic size has been discovered by Mr D Douglas, W. of the Rocky Mountains; one specimen (not the largest blown down,) was measured by him, and found to be 215 feet in length; circumference, 3 feet from the ground, 57 feet 9 inches; and 134 feet from the ground, 17 feet 5 inches. Cones, 12 to 16 inches in length, and 11 in circumference They are two years acquiring their full growth, when the trunk is partly burned, the resin which exudes is sweet and The seeds are roasted for used as sugar food, and made into cakes. This magnificent pine is termed Sambertiana.

Thuua Occidentalis - White cedar, a handheaps with their snow-shoes, making a some and useful tree, which grows chiefly in marshes to the height of 40 or 50 feet, and 2 feet in diameter; leaves evergreen, small and curiously imbricated or lopped over each other; branches slender and usually pendant, bark fibrous and stringy, flowers scarcely visible, cones very small, rugged, of a greenish, and subsequently, bluish tint Michaux states that he counted 277 annual lavers in a trunk 21 inches in diameter, at 5 feet from the ground, and 47 in a plant only 8 inches thick at the surface, which proved it to be then 50 years old Woodwhite, light, soft, fine-grained, and easily When sufficiently seasoned, and exposed some time to the light, it is of a rosv hue, and has a strong aromatic odour, which it preserves as long as it is guarded from humidity The perfect wood resists the succe-sion of dryness and moisture for a great length of time, and this constitutes its great value for fencing Rails of split cedar have been known to last from 50 to 60 years when deprived of the bark Shingles of white cedar have been known to last upwards of 30 years, when sawed into very thin boards, used for the construction of light boats, especially for those used in the whale firsherv

Mr Perley says, that the superior fitness of this wood for various household utensils, has given rise in the United States to a distinct class of mechanics, called "cedar coopers," who principally fabricate large and small tubs, pails, churns, and other household utensils, as well for export as for home consumption This ware, instead of becoming dull, like that of other wood, becomes whiter and smoother by use. It is esteemed the rally assume an arching shape, which gives best wood in which to preserve oils. Charthem the appearance of horns, are extremely coal, highly esteemed in the manufacture of gunpowder, is made of young stocks about blooms annually. A cubic foot of the gray oak from an inch and-a-half in diameter, deprived of the Grand Lake, in Queen's County, New Brunswick, their bark. The seasoned wood affords a beautiful lamp-black, lighter and more intensely coloured, though less abundant than that obtained from the pine.

Arbor Vita—American—A species of thuva, abounding in favourable situations. such as sedgy swamps and borders of lakes. between the parallels of 45° and 48°. varieties, the "striped-leaved" and the "sweet-scented." height, 40 feet; diameter, about 2 feet: growth, extremely slow. The valuable properties of the wood are well known.

The cedar generally escapes the ravages of the bostrichus piniperda, the most destructive of the insects which commit great ravages on the fir tribe. "This little ammal," says Mr. Perley, "introduces itself into the cellular integument of the bark, and succeeds in dividing it from the trunk. The separation of the bark prevents the circulation of the sap, and hence results the mevitable death of the tree. In dense groves of trees of the fir tribe, where only a few are felled, these msects multiply rapidly on the tops and branches which are left after the removal of the trunk, and they thence extend to the standing timber, attacking generally the oldest trees, and those which have any defective art. Young and thrifty trees resist their attacks."

The leafy trees of British America are composed chiefly, of the quercus, two species -gray and red oak; of juglans, one-the walnut, or butternut; of acer, five-the white, red flowering, sugar or rock, moose wood, and low maple; of cornus, one-the dogwood; of the betula, four-the canoe, white, yellow, and black birch; of alnus, twocommon and black alder; of cerasces, twothe wild and the northern cherry; of populus, two—the balsam poplar (balm of Gilead), and the American aspen; of fagus, twowhite and red beech; carpinus, two-American horn-beam and iron wood; of fraxinus, two-white and black ash; of salia, three-the black, champlain, and shining willow; ulmus, two—the white and red elm; and of the zilia one—the American lime, or bass wood.

I am indebted for the following interesting description of these several trees to H. M. Perley, Esq. :-

Gray Oak—Quercus Borealis, seldom, if ever, woodsmen, exceeds 40 feet in height, or 2 feet in diameter. It this purpose.

weighed 52 pounds when well seasoned

Red Oak—Quercus Rubra, a tall, wide-spreading tree, of larger size than the gray oak Leaves are smooth and shining on both sides; in the autumn they change to a dull red, and turn yellow before they fall. The acorns are large and abundant, rounded at the summit, compressed at the base, and contained in flat cups, covered with narrow compact scales. They are voraciously devoured by wild animals, and by cows, horses, and swine, when ranging the woods after the herbage has perished. Wood reddish and coarse-grained, and the pores are often large enough for the passage of a hair. Tolerably strong, but not very durable, and it is chiefly used for the staves of barrels and casks, in which to contain dry wares A cubic foot of this wood, well seasoned, weighed 44 pounds A cubic foot of English oak, when seasoned, weighs from 50 to 54 pounds.

"Butternut -Juglans Cathartica, frequently attaining the height of 80 feet, and the diameter, at 4 feet from the ground, of 6 to 8 feet. The roots of a large-sized tree, often extend even with the surface of the ground, in a serpentine direction, and with little variation in size, to the distance of 40 feet. The trunk ramifies at a small height, and the branches, seeking a direction more horizontal than those of other trees, and spreading widely, form a large and tutted head, which gives the tree a remarkable appearance. The fruit is commonly single, and suspended by a thin, pliable foot-stalk, about three inches in length; its form is oblong oval, without any appearance of seam. It is often two and-a-half inches in length, and five inches in circumference, and is covered with a viscid adhesive substance, composed of small transparent vesicles, which are easily discovered with the aid of a glass The nuts are hard, oblong, rounded at the base, and terminated at the summit in an acute point, their surface is very rough, deeply and irregularly furnowed They are ripe in New Brunswick in October, and in some seasons are bushels of them in a day. The Indians, in former times, pounded and boiled the kernels, and separating the oily substance which swam upon the surface, mixed it with their food. These kernels are very oily, and hence the name of 'butternut'
"When the fruit has attained about half its

growth, it is sometimes used for making pickles, being first plunged into boiling water, then throughly wiped to clean it of its down and afterwards preserved in vinegar. If the trunk of the butternut is pierced in the month which precedes the unfolding of the leaves, a pretty copious discharge ensues of a slightly sugary sap, from which, by evaporation, a sugar is obtained of a quality but slightly inferior to that of maple sugar An extract of butternut bark in water, or even a decoction sweetened with honey, is acknowledged to be a very excellent ca-thartic. Its purgative operation is stated to be always sure, and unattended, in the most delicate constitutions, with pain or irritation. On a live tree, the inner bark, when first exposed, is of a pure white; in a moment it changes to a beautiful lemon colour, and soon after to a deep brown. The bark of the butternut tree is very commonly used in the country for dying yellow, and many fine trees are annually destroyed by the recklessness of the backwoodsmen, who strip the bark from the trunk for

"The butternut wood is light, of little strength, and of a reddish hue, but possesses the great advantage of lasting long, and of being secure from the ravages of worms, and it will long resist the effects of heat and moisture. On the Ohio, it is sawn into boards for the construction of small skiffs, which, on account of their lightness, are in request for river navigation. It is also used for the panels of coaches and carriages, for which it is found well adapted, not only from its lightness, but because it is not liable to split, and receives paint in a superior manner. For corn shovels and wooden dishes, it is preferred to the red flowering maple, because it is lighter and less hable to split. Very considerable quantities of furniture are now made at Fredericton of butternut wood, which is becoming in great request for a variety of purposes. For wainscoting, and for fitting up libraries, it is well adapted, being easily worked, of a pleasing colour, and susceptible of a good polish, which throws out the graining, and shows the wood to advantage.

"The Maples, in general, are lofty and beautiful trees, deciduous, and sufficiently hardy, they grow quick, are easily transplanted, and bear cropping. The grass flourishes under their shade. They prefer a free, deep, and loamy soil, rich, rather than sterile, and neither wet nor very dry. The situation that suits them best is one that is sheltered and shady, rather than exposed. They are seldom found on the north side of lofty mountains, or on mountains at all, except among other trees, but on the plans they are tound by themselves. The wood of the maples differs so widely in quality in different species, that it is difficult to characterise it by general observations. Maple wood speedly ferments and decays when exposed to the weather. It is hable to be injured by worms, and hence is unfit for building. It possesses, however, other qualities which in part compensate for these defects, and which render it useful in the

arts, and in domestic economy
"White Maple—Acer Eriocarpum. Trunk low, and divides itself into a great number of limbs, so divergent that they form a very spacious head leaves are opposite, and supported by long footstalks, they are divided by deep sinuses, into four lobes, and are toothed on the edges, of a bright green on the upper surface, and of a beautiful white beneath. The foliage is scattered, and leaves an open thoroughfare to the sunbeams. Wood, very white, and of a fine grain, but it is softer and lighter than that of any other species of the maple, and, from its want of strength and durability, is but little used. When dry, it weighs 38 pounds to a cubic foot, and in seasoning loses nearly half its weight. As it soon changes colour, it is not much used for cabinet work. The charcoal made from it is esteemed for yielding a strong uniform heat of long continuance. The sap of the white maple is in motion earlier in the spring than in the sugar maple. Like the red maple, it yields but half the product of the sugar maple from a given measure of sap, but the unrefined sugar is said to be whiter and more agreeable to the taste than that of the sugar maple The inner bark of the white maple rapidly produces a black precipitate, with sulphate of iron.

"Red-flowering Maple-Acer Rubrum.-Whether in flower or in foliage, the red maple, like its con-geners, is a beautiful tree. It neither attains the size nor the height of the sugar maple. The blossoms, which are of a beautiful purple, or deep red, unfold more than a fortnight before the leaves. The

fruit is of the same hue with the flowers, though it varies in size and in the intensity of its colouring according to the exposure and the dampness of the soil. The extremities of this tree, which are formed by amerous twigs united at the base, have a remarkable appearance when garnished with flowers and seeds of a deep red, before vegetation has begun generally to revive.

"The wood, when dry, weighs forty-four pounds the cubic foot; when green, it is soft, full of aqueous matter, and loses in drying nearly one-half of its weight. It is harder than the wood of the white maple, and of a finer and closer grain, hence it is easily wrought in the lathe, and acquires by polishing a glossy and silken surface. In the United States the wood is principally employed for the lower part of Windsor chairs. It is also used for spinningwheels and saddle-trees, and in the country is preferred for yokes, shovels, and wooden dishes.

"It sometimes happens in very old trees that the grain, instead of following a perpendicular direction, is undulated, and this variety bears the name of curled maple' This singular arrangement, for which no cause has ever been assigned, is never witnessed in young trees, nor in the branches of such as exhibit it in the trunk It is also less conspicuous at the centre than near the circumference. Trees offering this disposition are rare, and do not exist in the proportion of one to a hundred The serpentine direction of the fibre, which renders it difficult to split and to work, produces, in the hands of a skilful mechanic, the most beautiful effects of light and These effects are rendered more striking, if, after smoothing the surface of the wood with a double-ironed plane, it is rubbed with a little sulphuric acid, and afterwards anointed with linseed On examining it attentively, the varying shades are found to be owing entirely to the inflection of the rays of light, which is more sensibly perceived on viewing it, in different directions, by candle-light

"Before mahogany came into such general use, the wood of the red-flowering maple was much used for furniture, bedsteads are still made of it, which in richness and lustre excel the finest mahogany. It is now sawn into thin plates (veneers) which are used to inlay other woods, in articles of cabinet work, and the finishing of ships' cabins. The red-flowering the finishing of ships' cabins. The red-flowering maple never produces the variety known as 'bird's-eye maple;' that is confined exclusively to the sugar The inner bark of the red-flowering or rock maple maple is of a dusky red By boiling, it yields a purplish colour, which, on the addition of sulphate of iron, becomes a dark blue, approaching to black. It is used in the country, with a certain portion of alum in solution, for dyeing black. The wood of this maple is inferior to that of rock maple for fuel. The French Canadians call this tree plaine. make sugar from its sap, but, as in white maple, the product of a given measure is only half as great as is obtained from the rock or sugar maple.

" Sugar Maple-Acer Saccharmum.-This is the most interesting of the American maples, and is called rock maple, hard maple, and sugar maple. The first of these is most generally used, but Michaux used the last, as indicating one of the most valuable pro-perties of the tree. The sugar maple frequently reaches the height of 70 or 80 feet, with a proportional diameter; but it does not commonfy exceed 50 or 60 feet, with a diameter from 12 to 18 inches. Well-grown, thriving trees are beautiful in their ap-pearance, and easily distinguished by the whiteness of their bark. The natural habitat of the sugar maple is the steep and shady banks of rivers, and elevated situations, where the soil is cold and humid, free, deep, and fertile, and not surcharged with mois-

ture.

"The leaves are about five inches broad, but they vary in length according to the age and vigour of the tree. They are opposite, attached by long footstalks, palmated, and equally divided into five lobes, entire at the edges, of a bright green above, and glaucous, or whitish underneath. In autumn, after the appearance of the first frost, their colour changes from green to all shades of red, from the deepest crimson to light orange. At first the leaves at the extremities of the branches alone change their colour, leaving the internal and more shaded parts still in their verdure, which gives to the tree the effect of great depth of shade. and displays advantageously the light, lively colouring of the sprays. Later in the season, when the tints become more and more gorgeous, and the full beams of the sunshine fall upon the large masses of foliage, the warm and glowing colours of the whole summit possess a great deal of grandeur, and add much to the beauty and effect of the landscape.

"Mr. M'Gregor, in his work on British America, speaking of the forests, says,—'It is impossible to exaggerate the beauty of these forests; nothing under Heaven can be compared to its effulgent grandeur. Two or three frosty nights in the decline of autumn, transform the boundless verdure of a whole empire into every possible tint of brilliant scarlet, rich violet, every shade of blue and brown, vivid crimson, and glittering yellow. The stern, inexorable fir tribes, alone maintain their eternal sombre green, all others, on mountains or in valleys, burst into the most glorious vegetable beauty, and exhibit the most splendid

and most enchanting panorama on earth'

"The wood of the sugar maple when first cut is white, but after being wrought, and exposed for some time to the light, it takes a rosy time. Its grain is fine and close, and when polished it has a silky lustre. It is very strong, and sufficiently heavy, but wants the property of durability, when exposed to moisture it soon decays, and is therefore neglected in civil and naval architecture. For many puiposes, however, it is preferred to beech, birch, or elm, but it should be perfectly seasoned, which requires two or three

vears

"The wood of the sugar maple grown in New Brunswick, when dry, weighs forty-six pounds to a cubic foot; that grown to the southward of New Brunswick weighs much less. It furnishes the best fuel in the province, and its ashes are rich in the alkaline principle. Four-fifths of the pot-ashes exported from Boston and New York to Europe, are made from this maple. The charcoal made from it is preferred to any other, it is one-fifth heavier than the coal made from the same species of wood in the middle and southern states, a fact which sufficiently evinces that the sugar maple acquires its characteristic properties in perfection only in a northern climate.

"There is a great resemblance in appearance between the wood of the red-flowering maple and that of the sugar maple, but the latter is easily distinguished by its weight and hardness. There is, besides, a very certain and simple test. A few drops of sulphate of iron (copperas) being poured on samples of the different species, the sugar maple turns greenish, and the white maple and red-flowering maple change

o a deep blue.

"The sugar maple exhibits two accidental forms in the

arrangement of the fibre, of which cabinet-makers take advantage for making beautiful articles of furniture. The first consists in undulations, like those of the red-flowering maple, and is likewise known as "curled maple;" the second, which takes place only in old trees that are still sound, appears to rise from an inflexion of the fibre from the circumference toward the centre, producing spots of half a line in diameter, sometimes contiguous, and sometimes several lines apart. The more numerous the spots the more beautiful, and the more esteemed is the wood; this variety is called 'bird's-eye maple.' It is now beginning to be exported in very considerable quantities to the United Kingdom, where it brings a high price; and as its value is becoming more generally understood, it is to be hoped that hereafter it will not be so lavishly cut and wasted by the lumberers and backwoodsmen as has heretofore been the case

"The ancients held the maple in great esteem; and tables inlaid with curious portions of it, or formed entirely of its finely-variegated wood, in some instances brought their weight in gold. To such a height did the fondness of the Romans for curious woods carry them at one period of their history, that their tables were even more expensive than the jewels of their ladies. Maple dishes are frequently mentioned by the Latin poets, and Cowper and many modern poets also mention bowls of maple as being used by shepherds and hermits. Virgil celebrates the maple as the throne of the 'good Evander,' and its branches as the canopy under which he received

and seated Æeas .

"' On sods of turf he sat the soldiers round ,
A maple throne, raised higher from the ground,
Received the Trojan cinef, and o'er the bed
A lion's shaggy hide for ornament they spread '

"Pliny gives an elaborate account of the uses and properties of maples, he enumerates ten different

kinds which were known in his time.

"Besides the varieties of 'curled maple' and 'bird's-eye maple,' two other varieties occur in the wens or excrescences which grow on the trunk of the sugar maple. The most valuable of these is known by the name of 'variegated maple knob,' or 'loupe d'erable de couleurs variess, of the French. It presents an assemblage of shades agreeably disposed, sometimes resembling Arabic characters, which renders the wood exceedingly appropriate for fancy work, and, from its scarcity, it commands very high prices. The other variety, known by the name of 'silver white maple knob,' or 'loup d'erable blane argente,' of the French, exhibits a silvery lustre, and is highly prized for the same purposes as the preceding, although more common.

"The Indians of New Brunswick have been accustomed to make their dishes of these maple knobs from time immemorial, and they still continue to use them, for with ordinary care they last a very long time. Some of these rude dishes, when finished and polished by an experienced workman, are exquisitely beautiful, and worthy a place among the most rare and costly

specimens of wood

The extraction of sugar from the maple is a valuable resource in a country where all classes of society daily make use of tea and coffee. A cold and dry winter renders the trees more productive than a changeable and humid season. When frosty nights are followed by dry and warm days, the sap flows abundantly; and from three to five gallons are then yielded by a single tree in twenty-four hours. Three persons are found sufficient to attend 250 trees; each

tree of ordinary size yields, in a good season, twenty to thirty gallons of sap, from which five or six pounds of sugar are made; but the average quantity, in ordinary seasons, is about four pounds to each tree. Wild and domestic animals are immederately fond of maple sap, and break into enclosures to sate them-

selves with it.

" Moose Wood-Acer Strutum.-The name of moose wood was given it by the first settlers, from observing that the moose subsisted, during the latter part of the winter and beginning of spring, upon its young twigs. Its ordinary height is ten feet, though individual trees are found more than twenty feet The trunk and branches of the moose wood are clad in a smooth green bark, longitudinally marked with black stripes, by which it is easily distinguishable at all seasons of the year The small size of the moose wood forbids its use in any kind of contruction, but as it is white and fine grained, cabinet-makers sometimes employ it in forming the white lines with which they inlay mahogany. Its principal advantage to the inhabitants consists in furnishing them, at the close of winter, when their forage is exhausted, with a resource for sustaining their cattle, till the advancing season has renewed the herbage. As soon as the buds begin to swell, the famished horses and neat cattle are turned loose into the woods, to browse on the young shoots, which they consume with avidity. Poor as this resource may appear, it is not wholly inadequate, as the twigs are tender, and full of saccharine juice.

"Mountain Maple—Acer Montanum, seldom exceeds 15 feet in height, but it blooms at an elevation

of 6 or 8 reet, and even less.

"Flowery Dog Wood-Cornus Florida, forms a tree, attaining a height of 30 to 35 feet, with a trunk of 9 or 10 inches in diameter, but in general it does not exceed one-half of these dimensions. The trunk is strong, and is covered with a blackish bark, chopped into small portions, which are often in the shape of squares, more or less exact. The branches are proportionally less numerous than on other trees, and regularly disposed nearly in the form of crosses leaves are oval, of a dark green above, and whitish beneath. Towards the close of summer they are often marked with black spots, and at the approach of winter they change to a blood red The flowers, which appear in May, or early in June, while the leaves are only beginning to unfold themselves, are yellowish, and collected in bunches, which are surrounded with a very large involucre, composed of four large white floral leaves, sometimes inclining to violet. This fine involucre constitutes the chief beauty of the flowers, which are very numerous, and which, in their season, robe the tree in white, like a full-blown apple tree, and render it one of the fairest ornaments of the American forests.

"The berries, which are of a vivid glossy red, and of an oval shape, are always united. They remain upon the tree until the first autumnal frosts, when, notwithstanding their bitterness, they are devoured by the robin (Turdus migratorius) and other small

birds_

"The wood is hard, compact, heavy, and fine-grained, it is susceptible of a brilliant polish. The sap-wood is perfectly white, and the heart-wood is of a chocolate colour. This tree is not large enough for works which require pieces of considerable size; it is used for the handles of light tools, such as malets, chisels, and the like. In the United States some farmers select this wood for harrow teeth, for

the hames of horses' collars, and also for shoeing sled-runners; it is also used for the cogs of mill-wheels; but to whatever purpose it is applied, being hable to spht, it should never be wrought until it is perfectly seasoned. The shoots, when three or four years old, are found suitable for the light hoops of small casks; and the divergent branches are used for the yokes which are put on the necks of swine, to prevent their breaking into enclosed fields. The arrows of the Indiars were formerly made of dog wood, as were also the spears of the ancients, by whom this wood was held in high esteem. Virgil speaks of ti—

---- " bona bello

Company

"The berries dye purple; the inner bark, which is extremely bitter, has proved an excellent substitute for the Peruvian bark. Dr. Walker, of Virginia, in an inaugural dissertation on the comparative virtues of the Cornus florida, C. sericea, and Cinchona officinalis of Linnæus, after detailing a great number of experiments, remarks:—'A summary recapitulation of these experiments shows, that the Cornus florida, sericea, and Peruvian bark, possess the same ingredients, that is, gum, mucilage, and extracts, which last contain the tannin and gallic acid, though in different proportions. The florida has most of the gum, mucilage, and extracts; the sericea, the next, which appears to be an intermediate between the florida and cinchona; while the latter possesses most of the resin Their virtues appear similar and equal in their residence. The extract and resin possess all their active powers. The extract appears to possess all their tonic powers. The resin, when perfectly separated from the extract, appears to be purely stimulant; and probably the tonic powers of the extract are increased when combined with a portion of the resin, as in the spirituous tincture. The bark also may be substituted for galls in the manufacture of ink. From the bark of the more fibrous roots, the Indians obtain a good scarlet dye.

"Such are the profitable uses of this tree, which merits attention from the value of its wood, its useful properties, and especially from the beauty and brilliancy of its flowers, by which it is better adapted than almost any other of the North American trees, for the embellishment of extensive gardens and pleasure-grounds. In England it is cultivated solely as an ornamental shrub; but from its large white flowers, 'emulous of the purity of snow,' which finely contrast with the 'forest green,' it is said to deserve richly a place in every collection where it will thrive.

and Birch—Betula Papyracea—By the French Canadians, this tree is called Bouleau blanc, white birch, and Bouleau a canot, canoe birch. It is known in New Brunswick, also by these denominations, and sometimes by that of 'paper birch,' but that of 'canoe birch' has been deemed most proper, as indicating an important use made of the bark.

"To the inhabitants of these regions, the trees of this genus are highly interesting, and are applied by them, with wonderful ingenuity, to the necessities of life. They employ the wood in the construction of houses and of vessels, and in the works of the wheelwright and the cabinet-maker, of the bark, which is nearly incorruptible, they make boxes, canoes, and more secure covering for their habitations; with the leaves they dye their nets; and from the sap they procure a mild and sugary beverage.

"The cance birch is most multiplied in the forests of North America, in that portion lying N. of the 43rd degree of latitude, and between longitude 75° W., and the Atlantic Ocean; this portion, though situated 10° further S., is said very nearly to resemble Sweden and the eastern part of Prussia, not only in the face of the country, but in the severity of the climate. Below the 43rd degree of N. latitude, the cance birch is not found. It attains its largest size, which is about 70 feet in height, and 30 inches in diameter, on the declivity of hills and in the bottom of fertile valleys. Its branches are slender, flexible, and covered with a shining brown bark, dotted with white. The twigs are erect in young trees, but being very slender and pliant, are apt to become pendent in old ones; hence a very beautiful variety, nearly equal in gracefulness to the drooping elm.

The heart, or perfect wood, when first laid open, is of a reddish hue, and the sapwood is perfectly white It has a fine glossy grain, with a considerable share of strength; that it is little employed, is owing partly to its speedy decay when exposed to the succession of dryness and moisture, and partly to the existence in its vicinity of several species of wood, such as the maples, the beech, and even the yellow birch, which are far preferable for the uses of the joiner and the

wheelwright.

"A section of the trunk of this tree, 1 or 2 feet in length, immediately below the first ramification, exhibits very elegant undulations of the fibre, representing bunches of feathers, or sheaves of corn. These pieces, divided into thin veneers, were formerly much used by cabinet-makers in the United States to embellish their work. The canoe birch affords tolerably good fuel, but is inferior to maple On trees not exceeding 8 inches in diameter, the bark is of a brilliant white, like that of the white birch of Sweden, and like that, too, it is almost indestructible Trees long since prostrated by time, are often met with in the forests, whose trunks appear sound, while the bark, which remains perfect, contains only a friable substance like vegetable mould This bark. like that of the European species, is devoted to many uses. In New Brunswick, large pieces are placed beneath the shingles and clapboards to render the houses dryer and less penetrable to cold

"The Indians make boxes, dishes, and a variety of ornamental articles, of birch bark, the boxes they ornament very neatly with stained porcupine quilts, the ornamental articles for ladies are embroidered with coloured silks, or dyed moose hair Their wigwams are always built of it, and they use it for watervessels, drinking-cups, and an almost endless variety of purposes. They sometimes manage to boil water in this bark, when split very thin, and in that state they frequently use it as paper. But the most important use of this bark, and for which no other can be used, is in the construction of canoes To procure a proper piece for making a canoe, the largest, straightest, and smoothest trunks are selected. After the est, and smoothest trunks are selected tree is cut down, a circular incision is made as far up the trunk as the bark is good, that is, just below the branches A very careful examination is then made to ascertain the best side of the bark, in order that the most perfect portion may form the bottom of the cance; this being ascertained, a straight incision is made, from the circular incision to the butt of the tree. The edges of the bark are next raised with wedges, and much precaution used to prevent any portion flying off too suddenly, and spoiling the whole. When the edges of the bark are fully cleared from the trunk of the tree, the bark is relieved from the pressure which was kept on it until then, and the whole bark of

the trunk flies off at once A piece thus obtained was 22 feet in length, 56 inches in width at one end, and 46 inches at the other. It was subsequently formed into a large canoe of the Milicete fashion. These canoes are stitched together with fibrous roots of the white spruce, about the size of a quill, which are deprived of the bark, split, and suppled in water. The gunwales and ribs are formed of white cedar (Cupressus thyoules), and the cross-bars of sugar maple: the seams are coated with white spruce gum. The paddles are made either of the red-flowering maple, or the sugar maple; but the latter is preferred.

"White Birch—Betula Populifolia, is most frequently found in places scantily furnished with trees, where the seil is dry and meagre; in these situations it commonly rises to the height of 20 or 25 feet, and is generally associated with the aspen or poplar. Single trees which grow accidentally in moist and sheltered places, expand to an ampler size, and are sometimes 40 feet in height, yet not more than 9 inches in diameter. It is less abundant than the other species of the birch tribe, and is rarely found in groups. It is commonly seen by the side of highways growing singly on burnt land, or sandy soils which have been exhausted by cultivation, or which are too poor to produce crops The trunk is clad in a bark as white or whiter than that of the canoebirch; but its outer bark, when separated from the inner bark, is incapable of being divided like that of the canoe-birch, into thin sheets, which constitutes a very essential and most important difference. wood is very soft, brilliant when polished, and per-fectly white From its speedy decay, and the inferior size of the tree, it is not employed for any use

except for fuel

"Yellow Birch-Betula Lutea, abounds in New Brunswick; it is always found on cool and rich soils, with ash, hemlock, spruce, and black spruce. In these situations it attains its larg st size, which is from 60 to 70 feet in height, and more than 2 feet in diameter It is a beautiful tree; its trunk is nearly uniform in diameter, straight and destitute of branches for 30 or 40 feet It is particularly remarkable for the colour and arrangement of its outer bark, which is of a brilliant golden yellow, and which frequently divides itself into very fine strips, rolled backwards at the ends, and attached in the middle. The young shoots and the leaves at their unfolding are downy. Towards the middle of summer, when fully expanded the leaves are perfectly smooth, except the foot-stalls which remains covered with a fine short hair. leaves about 31 inches long, 21 inches broad, oval acuminate, and bordered with sharp and irregular teeth. The leaves, the bark, and the young shoot, have an agreeable taste, and similar to those of the black birch, though less sensible, which they lose in The wood is inferior in quality and appearance to that of the black birch; it never assumes as deep a shade, but it is strong, and when well polished makes handsome furniture. It is found by experience to be every way proper for that part of the frame of vessels which always remains under water. It furnishes an excellent combustible. The young saplings are employed in New Brunswick almost exclusively for the hoops of casks. Brooms are made of the twigs, and the Indian women make brooms of the wood by splitting it up. The bark is valuable for tanning Russian leather is prepared with empy-reumatic oil from the bark of this tree, whence its peculiar odour Yellow birch timber is exported to Europe in considerable quantities, but it is shipped

with black birch, and passes with that species indiscriminately under the general name of birch.

" Black Birch - Betula Lenta .- The agreeable foliage of the black birch, and the valuable properties of its wood, render it the most interesting of the American birches. In Canada it is called cherry birch; in New Brunswick it is always called black It grows in preference in deep, loose, and cool soils; in these situations it obtains its greatest expansion, sometimes exceeding seventy feet in height, and three feet in diameter Its vegetation is beautiful, and in a congenial soil its growth is rapid. It is stated in the "Annals of the Arts," that a tree of this species attained the height of forty-five feet in The black birch is one of the earliest nineteen vears The leaves, during a trees to renew its foliage fortnight after their birth, are covered with a thick, They are silvery down, which disappears soon after about two inches long, toothed, heart-shaped at the base, pointed at the summit, of a pleasing tint, and fine texture like the leaves of the cherry-tree young shoots are brown, smooth, and dotted with white, as are also the leaves. When bruised, the leaves diffuse a very sweet odour, and as they retain the property when dried and carefully preserved, they afford an agreeable infusion, with the addition of milk and sugar

"The bark upon the trunk of trees less than eight inches in diameter, is smooth, grayish, and perfectly similar in colour and organisation to that of the On old trees the outer bark is rough, and of a dusky gray colour, it detaches itself transversely at intervals, in hard, ligneous plates, six or eight inches broad. Michaux the younger calls this birch one of his favourite trees, and recommends it to the lovers of foreign vegetables, as eminently adapted by the beauty of its foliage and the agreeable colour of its leaves, to figure in the parks and gardens of Europe. He strongly recommends the inhabitants of the old world to introduce it into their forests; and particularly mentions the north of France, England, and Germany, as favourable to its growth, from

the greater humidity of the climate
"The wood when freshly cut is of a rosy hue, which deepens by exposure to the light Its grain is fine and close, whence it is susceptible of a brilliant polish; it possesses also a considerable share of strength. The union of these properties reader it superior to all other species of birch, whether European or American The weight of a cubic foot of the wood of the black birch, when seasoned, is forty-five pounds. The specific gravity of water being estimated at 1,000, that of seasoned black birch wood is When green, this wood floats with difficulty, and sinks after a time, unless supported by timber of a less specific gravity When well seasoned (which can only be done thoroughly under water) it makes very strong and useful articles of furniture, for which it would be more generally used but for its constant tendency to warp. It is much used in New Brunswick in ship-building, for the keel and lower timbers of vessels, and as it is almost imperishable under water, it is well adapted for planking, piles, foundation timber, sluices, and, in general, for any purpose where it is constantly wet.

"Black birch wood is now exported in large quantities to the United Kingdom, in the form of squared timber, and sawn planks the quantity of each is annually on the increase. It has been suggested by a gentleman well acquainted with the timber trade, that sawed birch staves might be made a profitable article of export to Great Britain, for making herring barrels on the British coasts.

"The wood of this species of birch furnishes excellent fuel, second only to that of the sugar maple. The nner bark is full of tannin. The sap, drained by incision in March and April, makes excellent vinegar, and a pleasant weak wine may be obtained from it by boiling and fermentation.

" The alder is found everywhere in New Brunswick, frequently growing along the sides of brooks, and abounding still more in places covered with stagnant water. As the roots of the alder penetrate to a great distance, it contributes more effectually than most other trees to support the banks at the season of the

overflowing of the waters.

"The ordinary dimensions of the common alder is about ten or twelve feet in height, and two or three inches in diameter. Its leaves are of a beautiful green, distinctly furrowed on the surface, and doubly

toothed at the edge.

"The black alder is much larger than the common alder, being sometimes eighteen or twenty feet in height, and three or four inches in diameter. Its leaves are similar in shape, but are easily distinguishable by their different tint and superior size; they are of a pale bluish-green, and a third larger than those of the common alder The bark of the trunk, and of the secondary branches, is smooth, glossy, and of a deep brown colour, sprinkled with white. Both species grow in cool, moist places, on the banks of rivulets and in swamps As their trunks are generally straight, tapering gradually from base to summit, garnished with numerous branches, bending rather close around the stock, they grow in great numbers in a small space

"The wood, when first laid open, is white, but it soon becomes reddish by contact with the air. The small size of both species mentioned, prevents their being of any very great use in the arts. The alder takes a better black than any other wood; when polished and varnished, it affords a good imitation of With sulphate of iron, the bark forms a black dye for colouring wool, it is sometimes used by hatters in the United States for dveing hats cubic foot of alder wood, in a dry state, weighs from 34 to 50 pounds. It soon rots when exposed to the weather or to damp, but it is extremely durable in

water or in wet ground.

" Cherry .- The trees of this genus are deciduous, with smooth serrated leaves, and white flowers. The two species which have been noticed in New Brunswick are more or less abundant, in proportion to the dryness and humidity of the soil, which are alike unpropitious They stand less in need of shelter than any fruit-bearing tree whatever, and may often be employed on the margins of orchards, or for surrounding kitchen-gardens to form a screen against high winds. They are said to thrive best when unmixed with other trees, and they suffer grass to grow beneath their shade. According to experiments which have been made, it is stated that no tree of considerable size bears transplanting better than the wild cherry. As in the case of all large trees which have been removed, they suffer a check by the operation; but from this they generally recover in the course of two, or at most three, seasons. As a tree, one of its valuable properties is the food and protection which it affords to numerous species of birds. This is one reason why the cultivation of the wild cherry is so generally encouraged in the forests of Britain, of Belgium, and of France, as it not only increases the

number of birds by supplying them with nourishment, but is the means of destroying countless insects which these important and useful creatures devour. In all ornamental plantations, hedge-rows, and avenues, wild cherry-trees are desirable objects of culture on this account, as also for their hardihood, and the great beauty of their flowers and fruit, which are produced in the greatest profusion in their respective seasons of the year

"In France the wild cherry-tree is highly prized for the food it supplies to the poor; and a law was passed, as long ago as 1669, commanding the preservation of all cherry-trees in the royal forests in consequence of which they became so numerous, that when, as usual, going to the underwood to grow, when, as usual, going to the other extreme, most of them were cut down. This measure, it was remarked, was a great calamity to the poor, who, during several months of the year, lived, either directly or indirectly, on the produce of the merisier or wild cherry-tree Soup made of the dried fruit, with a little bread and butter, was the common nourishment of the woodcutters and charcoal-burners of the forest during the winter. This fruit is much used in Europe at present, to make jelly or rob, and in the manufacture of liqueurs, such as cherry-brandy and ratafia chenwasser, an ardent spirit much used in Germany and Switzerland, is also made of it; and the famous hqueur Maraschino, is the product of a small acid cherry that abounds in the north of Italy, at Trieste, and in Dalmatia.

" Wild Cherry Tree-Cerasus Virginiana -In New Brunswick seldom exceeds 30 or 40 feet in height, with a trunk 8 or 10 inches in diameter Its bark is so peculiar as to render it distinguishable at first sight, when the form of the leaves cannot be discerned; it is blackish and rough, and detaches itself in narrow, semi-circular, hard, thick plates, which adhere for a time to the tree before dropping off, these are renewed after a considerable period

"The trunk is usually straight for about one-fourth of its height, where it ramifies into a spreading summit of a handsome outline, but its foliage is too thin to display that massive richness which gives so much beauty to the maples, and many other trees. The leaves are usually about four inches long, toothed, very much pointed, and of a beautiful mooth, shining green, with two or more small reddish glands at the base. The flowers are white, and occur in spikes, which when fully expanded, have a fine effect. The fruit is about one-fourth of an inch in diameter, of a roundish form, purplish black colour, and edible, but slightly bitter to the taste. It arrives at maturity in August or September, when it affords great nourishment to several species of birds

"There is a variety of the wild cherry tree known in New Brunswick as the 'choke-cherry,' which has been designated Cerasus Virginiana præcox variety differs from the species in having broadly-oval leaves, abruptly pointed, being sometimes sub-cordate at the base, very sharply, and often doubly-toothed, and generally hairy in the axils of the veins beneath

"The petals are orbicular; the fruit sub-globose, of a glossy scarlet, red when ripe, sweet and pleasant, but so very astringent that it dries the mouth and throat like the juice of spruce cones when swallowed It usually ripens its fruit several weeks earlier than the species of which it is a variety, and hence the

name praction.

"The wood is of a dull, light, red tint which deeps with age. It is compact, fine-grained, takes a

brilliant polish, and, when perfectly seasoned, is not hable to warp In the United States, where this tree grows to a very large size, it is extensively used by cabinet-makers for almost every species of furniture; and, when chosen near the ramification of the trunk, it rivals mahogany in beauty. The bark of the branches and of the roots is there collected by herbvenders, and brought to market in pieces or frag-ments. The bark of the root is regarded as the best, s destitute of epidermis or outer bark, of a reddishbrown colour, brittle, easily pulverised, and presents, when broken, a grayish surface. When fresh, the odour is prussic, which is lost in a measure in drying, but regained by maceration; the taste is aromatic, prussic, and bitter It is stated, undoubtedly, to be a useful tonic, and to possess, in some degree, narcotic and anti-spasmodic properties

"The fruit is employed in New Brunswick to make a cordial, by infusion in rum or brandy, with the addition of sugar; and, when carefully made with brandy, it is superior to the Kirschenwasser imported

from Copenhagen

'Northern Cherry Tree -- Cerasus Borealis -- A handsome small tree, growing to a height of 20 or 30 feet, with a trunk 6 or 8 inches in diameter, and covered with a smooth brownish bark, which detaches itself laterally Its leaves are from 3 to 5 inches ong, oval, toothed, and very sharp pointed. The flowers put forth in May or June, and occur in small white bunches, which give birth to a small, red, intensely-acid fruit, which airives at maturity in August The fruit is not very abundant even on the largest

This tree, like the canoe birch, is said to offer the same remarkable peculiarity of reproducing itself spontaneously, in old cultivated fields, or such parts of the forest as have been burnt over. Of all the trees of North America no one is so nearly allied to the common cherry (Cerasus vulgarus) as the present species, and hence it has been recommended as a suitable stock to graft that cherry upon The wood is exceedingly hard, fine-grained, and of a reddish hue, but the inferior size of the tree forbids its use in the mechanical arts

" Poplar .- At present only two species of trees of this genus have been recognised in New Brunswick The wood of the European aspen lasts long exposed to the weather, and most poplars are said to be very durable in a dry state, agreeably to the English woodman's adage-

"'Cover me well, to keep me dry, And heart of oak I do defy'

"The wood of most of the species is described as making very good flooring for bed-rooms, and places where there is not much wear, and it has the advantage of not catching fire readily, or, as Evelyn, has it, 'The poplar burns untowardly, and rather moulders away, than maintains any solid heat' The wood of the Lombardy poplar is recommended for cheeserooms and farm-houses in general, because neither mice nor mites will attack it

Balsam Poplar-Populus Balsamıfera, best known in New Brunswick by the name of 'Balm of Gilead,' on the rich alluvial lands on the boiders of the River St. John, above Fredericton, and along the valley of the Tobique The largest of the trees of the species reach the height of 80 feet, and are upwards of 2 feet in diameter.

"In the spring, when the buds begin to develop. they are abundantly coated with a yellowish glutinous

substance, of a very agreeable smell, and though this exudation diminishes at the approach of summer, the buds retain a strong balsamic odour. This odour is very much admired; and as this species of poplar grows very rapidly, and as easily transplanted, or propagated from cuttings, it is much in request as an ornamental tree. It will grow in all soils, but worst in clay; it impoverishes the land, destroys the grass, and the numerous shoots of the roots spread so near the surface of the earth, that they permit nothing else to grow, but rise in all quarters whether they are wanted or not

"Hitherto the wood of the balsam poplar has not been brought into very profitable use. It is extremely light, white, smooth, woolly, and soft; and there are, no doubt, many purposes for which it might be ad-

vantageously employed.

"American Aspen - Populus Tremuloides .- The ordinary height of the smaller species of poplar is about thirty feet, and its diameter five or six inches. The larger variety (which has been described as a distinct species, by the designation of *P. granduden*tata, but is believed to be only a variety of this species) grows to the height of fifty or sixty feet, and the diameter of eighteen inches or more, it flourishes as well on the border of swamps as on uplands. The straight trunk of the aspen is covered with a smooth greenish bark, which is rarely cracked, except on the base of the oldest trees, where it becomes furrowed. The catkins which spring from the extremity of the branches are composed of silky plumes, and of an oval form, somewhat more than an inch in length The leaves are about two inches broad, narrowed at the summit. and supported by long footstalks. On stocks, seven or eight feet in height they are nearly round, and are bordered with obtuse, irregular teeth; on young shoots they are of twice the size mentioned, heart-shaped, and pointed at the summit Of all the poplars of America this species has the most tremulous leaves, the gentlest air suffices to throw them into agitation.

"The wood of the smaller variety of the American aspen is light, soft, destitute of strength, and of little utility. It is felled only to disencumber lands, which are being cleared for cultivation. As the wood may be divided into very thin laminæ, it is sometimes used for the manufacture of ladies' and children's bonnets and light summer-hats, which are very pretty when new, but not very durable. There is great superiority in the wood of the larger variety of this species of poplar over that of the smaller variety is white, fine, and strong; it gives a firmer hold to nails, and is not hable to warp or split. The largest and best specimens of this beautiful wood is used for the ornamental work of ships' cabins, in conjunction with birds'-eye maple. It has a very silky lustre, and, when varnished and polished, bears a very close resemblance to satin wood, to which it is very little, if at all inferior, for ornamental purposes. The weight of a cubic foot of the large variety from Mıramıchi has been found to be twenty-six pounds.

coast of New Brunswick, use the wood for their sabots, or wooden shoes, and also for bowls, trays, and a variety of purposes in domestic economy. The superior size of this poplar renders it easily recognised when met with in the forest by the woodman; and its timber should be preserved, not only for its

"The Acadian French inhabitants of the northern

beauty, but for the variety of useful and ornamental purposes to which it may be applied. The bark of the aspen is the principal food of beavers, who cut

down the smaller trees, as well to procure food, as to build with them their singularly ingenious dams for

creating artificial ponds
"BEECH.—In North America, as in Europe, the beech is one of the most majestic trees of the forest. Beech, says White, of Selborne, is one of the most grand and lovely of all the forest trees, whether we consider its stately trunk, its smooth silvery rind. its glossy foliage, or graceful spreading pendulous branches. No tree, says another writer, is more beautiful when standing singly in parks, or orna-mental grounds, as it throws out its branches very regularly, and feathers almost to the ground. In woods or groves it grows clear of branches to a considerable height. Virgil was right in choosing the beech for its shade, for no tree forms so complete a roof; but no verdure is found under its shade. beech is most pleasing in its juvenile state A light airy young tree, with its spiry branches hanging in

easy forms, is often beautiful
"White Beech—Fagus Sylvestris, is more slender and less branchy than the red beech; but its foliage is superb, and its general appearance magnificent. The leaves are oval, pointed, smooth, shining, and bordered, in the spring, with soft, hairy down. The sexes are borne by different branches on the same tree, the barren flowers are collected in pendulous, globular heads, and the others are small and of a greenish hue. The fruit is in an erect capsule, covered with loose, flexible spires, which divides itself at maturity into four parts, and gives liberty to two triangular seeds. The bark upon the trunk of the beeches is thick, gray, and, on the oldest stocks, smooth and entire. The perfect wood of this species bears a small proportion to the sapwood, and frequently occupies only 3 inches in a trunk 18 inches in diameter. The specific name of "white beech" is derived from the colour of its alburnum or sapwood. The wood of this species is of very little value except for fuel In Ohio, the bark of the white beech is used for tanning, and the leather made with it is said to be white and serviceable, and inferior only to that prepared with oak bark.

"Red Beech-Fagus Ferruginea.-This species of beech is almost exclusively confined to the northeastern parts of the United States, and the provinces of Canada, New Brunswick, Nova Scotia, and Prince Edward Island. In some parts of New Brunswick, and generally in Prince Edward Island, it is so abundant as to constitute extensive forests, the finest trees growing on fertile, level, or gently sloping lands, which are proper for the culture of grain. Its name is derived from the colour of its wood, and not from its leaves. The red beech equals the white beech in diameter, but not in height; and, as it ramifies nearer the earth, and is more numerously divided, it has a more massive summit, and the appearance of more tufted foliage. Its leaves are equally brilliant with those of the white beech, a little larger and thicker. They become a pale yellow in the autumn; and they frequently remain on the tree during the winter, re-taining that colour. The fruit is of the same form as that of the white beech, but is only half as large, and is garnished with firmer and less numerous points. To these differences must be added an important one in the wood. A red beech, 15 or 18 inches in diameter, has not more than 3 or 4 inches of sapwood; while a white beech, of the same size, has 13 or 14 inches of sapwood, and very little heart of any value. The wood is stronger, tougher, and more compact than the white, and it bears a very strict analogy to the European beech. When perfectly seasoned, it is not hable to warp; and a cubic foot of it then weighs

from 43 to 53 pounds.

"Representing the strength of oak by 100, that of beech will be 103; representing the stiffness of oak by 100, that of beech will be 77; representing the toughness of oak by 100, that of beech will be 138. Hence it appears that the oak is superior in stiffness, but neither so strong nor tough. Before iron rails were introduced, much beech was used for railways for the collieries about Newcastle. The red beech is very durable when preserved from humidity, and incorruptible when constantly in the water; but it rapidly decays when exposed to the alternations of dryness and moisture. It is much esteemed in naval architecture for those parts of vessels which are constantly wet, and it is much used in Prince Edward Island. An old and experienced English ship-builder, residing at Richmond Bay, in Prince Edward Island, assured the writer that, on the lower part of vessels, he had known the red beech wood of the island sound at the end of 40 years, in such situations he considered it fully equal to English oak in strength and durability

The wood of the red beech is much esteemed for fuel, and its ashes afford good pot-ash It serves for shoe-lasts, tool-handles, planes, and mallets; and sometimes chairs, bedsteads, and other articles of furniture are made of it.

"Sheep and goats eat the leaves of the beech When gathered in autumn, before they are much injured by frost, the leaves, on account of their elastic quality, make better paillasses than either straw or chaff, and they last seven or eight years The nuts of the red beech are produced every second year. They are of a triangular form, with a smooth tough skin, and a fine interior pellicle adhering to the kernel. They are united in pairs, in capsules garnished with points, from which they escape about the 1st of October, the season of their maturity In France and Germany an oil is extracted from the beech-nut, next in fineness to that of the olive, and which may be preserved longer than any other oil. But they seem to yield little oil in northern countries. Linnaus says that, in Sweden, very little oil can be expressed from them, and the attempt has not yet been made in New Brunswick. Hogs fatten rapidly on beech-nuts, but the pork is not esteemed; bears, partridges, squirrels, and mice, feed on them largely In Belgium very solid and elegant hedges are made with young beeches, placed 7 or 8 inches apart, and bent in opposite directions, so as to cross each other and form a trellis, with apertures 5 or 6 inches in diameter. During the first year they are bound with osier at the points of intersection, where they finally become grafted and grow together. As the beech does not suffer in pruning, and sprouts less luxuriantly than most other trees, it is perfectly adapted to this object.

American Hornbeam — Carpinus Americana — Ordinary stature from 12 to 15 feet, but it sometimes reaches 25 or 30 feet in height, and 6 inches in diameter. The trunk of the American hornbeam, like that of the analogous species in Europe, is obliquely and irregularly fluted, frequently through all its length. By its form, and by the appearance of its bark, which is smooth and spotted with white, it is easily distinguished when the leaves are fallen. It sheds its leaves in autumn, about the same time with the elm During the-time of its verdure it makes a good appearance, being well clothed with leaves, which are oval, pointed, finely denticulated, and of a deep,

strong, green colour. Cattle eat the leaves, but no pasture grows under its shade; it is easily transplanted, and bears lopping. The fructification is always abundant, and the aments remain attached to the tree long after the foliage is shed.

"The wood, like that of the European hornbeam, is white, and exceedingly compact and fine-grained. It is in great request among the farmers for axe handles, and for agricultural implements, or for such parts of them as require great strength. Cogs for mill-wheels are made of the wood, and are accounted superior to those made of the wood of the sugar maple, which is generally used for that purpose. Scandinavia, the inner bark of the hornbeam is used to dye yellow; and the Indians of America use it

occasionally for a similar purpose.

" Iron Wood-Carpinus Ostrya nowhere forms masses even of inconsiderable extent, but is loosely disseminated, and found only in cool, fertile, and shaded situations. It rarely reaches thirty-five feet in height, and twelve inches in diameter, and commonly does not exceed half these dimensions. In the winter, this tree is recognised by a smooth grayish bark, finely divided, and detached in strips The leaves are not more than a line in breadth. alternate, oval-acuminate, and finely and unequally denticulated. The fertile and barren flowers are borne at the extremity of different branches of the same tree, and the fruit is in clusters like hops, whence the specific name ostrya. The small, hard, triangular seed, is contained in a species of reddish, oval, inflated bladder, covered at maturity with a fine down, which causes a violent irritation of the skin if carelessly handled. The concentrical circles of the wood are closely compressed, and their number, in a trunk of only four or five inches in diameter, evinces the length of time necessary to acquire this inconsiderable size The Canadian-French call iron wood, boss dus, hard wood.

"The wood is perfectly white, compact, fine-grained, and heavy To its inferior dimensions must be ascribed the limited use of a tree, the superior properties of whose wood are attested by its name. It is exceedingly valuable for all purposes to which its small size will permit it to be applied. Near New York brooms and scrubbing-brushes are made of iron wood, by shredding the end of a stick of suitable dimensions

"Ash is a very rapid growing tree, and its wood differs more from difference of soil and situation than that of any other tree. The wood of ash soon rots when exposed either to damp or alternate dryness and moisture, but is tolerably durable in a dry situa-It is said that the best season for felling ash 18 from November to February, and that when felled in full sap, it is very subject to the worm. In such case, the wood is said to be much benefited by water seasoning. It is very much esteemed for its toughness and elasticity; and in consequence of these properties, it is useful whenever sudden shocks are to be sustained, as in various parts of machines, wheel-carriages, implements of husbandry, ship-blocks, tools, and the like. It has been found as useful in the arts of war as in those of peace, in ancient as well as in modern times

> "' From Pelion's cloudy top, an ash entire Old Chiron fell'd, and shap'd it for his sire' Pope's Homer

"The wood is too flexible for the timber of buildings, and not sufficiently durable. Its texture is alternately compact and porous, the compact side of 2 K the annual ring being the lighter coloured, which son advances. renders the annual rings very distinct. The drip of colour, smooth on the upper surface, and coated with the ash is said to be very unfavourable to all other red down upon the main ribs beneath; when bruised vegetable productions. It exhausts the soil very they emit an odour like that of elder leaves.

much; the roots spread widely near the surface.

"White Ash—Frazinus Americana, is an interesting tree from the qualities of its wood, the rapidity of its growth, and the beauty of its foliage. abounds in New Brunswick; a cold climate seems most congenial to its nature The bark is of a white colour; on large stocks the bark is deeply furrowed, and divided into small squares, one to three inches

"The most favourable situations for white ash are the banks of rivers, and the edges and surrounding acclivities of swamps, where the soil is deep and fertile. In such situations, it sometimes attains the height of 50 or 60 feet, with a diameter of 18 inches The trunk is perfectly straight, and often or more

undivided to the height of more than 30 feet..
"The leaves of the white ash are opposite, and composed of 3 or 4 pairs of leaflets, surmounted by an odd one. The leaflets, which are borne by short footstalks, are 3 or 4 inches long, about 2 inches broad, oval, pointed, rarely denticulated, of a delicate texture, and an undulated surface. Early in the spring, they are covered with a light down, of a pale green colour above and whitish beneath As the contrast of colour between the surfaces is remarkable, and is peculiar to the species, Dr. Mechlenberg has denominated it Fraxinus discolor.

"The shoots of the two preceding years are of a bluish-gray colour, and perfectly smooth; the distance between their buds sufficiently proves the vigour of

their growth
"White ash is almost always accompanied by white elm, yellow birch, white maple, and hemlock and black spruce. The wood in young, thrifty trees, is very white, from the bark to the centre; but in large, old trees, the heart-wood is of a reddish tinge, and the sap-wood white. The weight of a cubic foot of this wood, when dry, varies from 34 to 52 lbs.; when the weight of a cubic foot is lower than 45 lbs., the wood is that of an old tree, and will be found deficient both in strength and toughness. Representing the strength of oak by 100, that of ash is 119; representing the stiffness of oak by 100, that of ash is 89, representing the toughness of oak by 100, that of ash is 160. The ash, therefore, exceeds both in strength and toughness, and in young wood the difference is still more considerable.

"The wood of the white ash is highly esteemed for its strength, suppleness, and elasticity. It is superior to every other wood for oars, and second only to hickory for handspikes. Besides its use by carriage and sleigh-makers, it is in very general use for agricultural implements and domestic wares, especially for the handles of spades, hoes, shovels, forks, rakes, and scythes. Cattle eat the leaves of ash greedily, but they are said to give a bad flavour to the butter.

" Black Ash-Frazinus Sambucifoka is generally known by the name of 'swamp ash;' in the United States it is called 'water ash.' It requires a moist soil, exposed to longer inundations than the white ash, and is usually accompanied by the red-flowering maple, yellow birch, black spruce, and white cedar. It does not often exceed 40 feet in height, or 12 inches in diameter.

"The buds of the black ash are of a deep blue, and the young shoots of a bright green, sprinkled with dots of the same colour, which disappear as the sea-

The leaflets are of a deep green

they emit an oflour like that of elder leaves.
"The black ash is easily distinguished from the white by its bark, which is of a duller hue, less deeply furrowed, and has the layers of the epidermis applied in broad sheets. It is among the last trees which put forth in spring, and the earliest that lose their leaves in autumn. The very first frost that comes, not only causes its leaves to fade and become yellow like those of other trees, but blackens and shrivels them up, so that they fall in showers with the least breath of wind. The perfect wood is of a brown complexion and fine texture; it is more elastic than that of the white ash. but it is neither so strong nor so durable. It is a wood, therefore, not greatly in request. As it may be separated into thin, narrow strips, it is much used by the Indians for the manufacture of baskets. In the country these strips are also used for chairbottoms.

"The black ash is hable to be disfigured with knobs, which are sometimes of a considerable size. and are detached from the body of the tree to make bowls and ornamental articles of turnery. The wood of these excrescences has the advantage of superior solidity, and, when carefully polished, exhibits singular undulations of the fibre Dishes made of these knobs. may be seen in most of the Indian wigwams (especially in remote situations), which have been used for a great number of years, and are highly prized. The ashes of the wood of the black ash are said to be rich in alkalı.

" Willow .- Many species of willow are found in the colonies, the greater part of which are susceptible of no useful employment. The three species here mentioned are distinguished only by their superior height, but they are all greatly inferior to European willow, in the size and properties of their wood. 1. Black Willow-Salix Nigra; 2. Champlain Willow-Salıx Lıgustrına; 3. Shınıng Willow—Salıx Lucida.
"The first of these three species (Salıx nıgra) 18

the most common of the American willows, and the most analogous to that of Europe It rarely attains a greater height than 30 or 35 feet, and a diameter of 12 to 15 inches It divides at a small height into several divergent, but not pendant limbs, and forms a spacious summit. The leaves are long, narrow, finely denticulated, of a light green, and destitute of stipulæ. In the uniformity of its colouring, the foliage differs from that of the European willow, the lower surface of which is whitish. Upon the trunk the bark is grayish, and finely chapt. Upon the roots, it is of a dark brown, whence may have been derived the specific name of the tree.

"The champlain willow (Salix ligustrina) is about 25 feet high, and 7 or 8 inches in diameter. Its first aspect resembles that of the black willow, but its leaves are longer, and accompanied at the base by

stipulæ.

"The shining willow (Salix lucida) is best known in new Brunswick by the name of 'red willow,' from the brilliant red colour of the bark on the young shoots. It is found in moist but open grounds, and is more common on the edges of meadows and on the banks of streams than in the interior of the forests. The shining willow attains the height of 18 or 20 feet, but its ordinary elevation is 9 or 10 feet. The wood is white and soft, and the branches of each as are easily broken from the tree. Neither the nor the twigs are applied to any useful purpose.

"The long slender branches of the shining or red willow are sometimes used for baskets, for which, however, they are rather brittle, and are therefore of little value. The Melicete Indians scrape the bark from the young twigs, and when dry, mix it with their tobacco for smoking; they are very partial to the admixture, the odour of which is much more agreeable than that of pure tobacco.

"The roots of the black willow afford an intensely bitter decoction, which is considered in the country as a purifier of the blood, and as a preventative, and

a remedy for intermittent fever.

"ELM.—There are two well-defined species of elm in New Brunswick, known as the white elm and red elm. A third species is supposed to exist, but it is not yet fully determined whether it is merely a variety of the white elm, or a distinct species. Every variety of elm is beautiful, and well adapted to make shady walks, as it does not destroy the grass; and its leaves are acceptable to cows, horses, goats, sheep, and swine. Silkworms are said to devour the tender leaves of elm with great avidity. Many insects feed upon the leaves, particularly the Cicadæ ulmi and Aphis ulm; the latter generally curl the leaves, so as to make them a secure shelter against the weather. The bark of elm, dried and ground to powder, has been mixed with meal in Norway to make bread in

times of scarcity. The flowers have a violet smell.

"White Elm—Ulmus Americana is found over an extensive tract of the North American continent, but it appears to be the most multiplied and to attain the loftiest height between the 42nd and 47th degrees of north latitude. It delights in low, humid, substantial soils, along the banks of rivers or streams, or on the borders of swamps where the soil is deep and fertile It will grow, however, on any soil that is not too dry and barren, and in any situation within its natural limits, how much soever exposed New Brunswick the white elm stretches to a great height. In clearing the primitive forests a few stocks are sometimes left standing; and insulated in this manner, the tree appears in all its majesty, towering to the height of eighty or one hundred feet, with a trunk three or even four feet in diameter, regularly shaped, naked, and insensibly diminishing to the height of sixty or seventy feet, where it divides itself into two or three primary limbs. These limbs, not widely divergent near the base, approach and cross each other eight or ten feet higher, and diffuse on all sides, long, flexible, pendulous branches, bending into regular arches, and floating lightly in the air, giving to the tree a broad and somewhat flat-topped summit, of regular proportions and admirable beauty When growing thus insulated, this tree is often marked by two or more small branches four or five feet in length, proceeding from near the first ramification, and descending along the trunk; and the larger branches or limbs, as also the trunk, are sometimes covered with little ragged twigs, as if clothed with tufts of hair. The bark of the white elm is light-coloured, tender, and very deeply furrowed The leaves are four or five inches long, borne by short footstalks, alternate, unequal at the base, oval, pointed, and doubly denticulated. They are generally smaller than those of the red elm, of a thinner texture, and a smoother surface, with more regular and prominent ribs. This species differs, also, essentially from the red elm and European elm in its flowers and seeds The flowers appear before the leaves, and are very small, of a purple colour, supported by short, slender footstalks, and united in

bunches at the extremity of the branches. In 1846. the white elm was noticed in flower, at Hampton Ferry, so early as the 20th of April; there was then

no appearance of leaves
"In autumn the bright golden foliage of the elm kindly mixes with the various hues of the poplar and the maples, which display all shades of red, and from the deepest crimson to the brightest orange. tints then contrast agreeably with the pale-yellow, sober foliage of the birch and the beech, with the different shades of brown on the bass wood and the ash, or with the buff-yellow of the larch. At that season, even the gloomy blackness of the resiniferous trees, by throwing forward the gaver tints, is not without its effect.

"The quality of the wood depends, in a singular degree, on the situation in which it grows. The rich 'intervales' already mentioned are necessary to its perfection; but when grown in open situations, where it is vexed by the winds and exposed to all the influences of the seasons it is still firmer and more The wood has less strength than the oak, and less elasticity than the ash, but it is tougher an i less liable to split. It is said to bear the driving of bolts and nails better than any other timber. wood is of a light brown colour, and is liable to decay when exposed to the alternations of dryness and moisture It must be either wet or dry, in extreme; accordingly, it is proper for water-works, mills, pumps, aqueducts, and ship-planks beneath the water-line It makes excellent piles and planking for wet foundations The piles on which London bridge stands are chiefly of elm, and have remained six centuries without material decay; and several other instances of its durability in water have been noticed When perfectly dry, the wood of the white elm weighs only thirty-three pounds the cubic foot. If cut transversely, or obliquely to the longitudinal fibres, it exhibits numerous and fine undulations, which are very beautiful when polished. The wood is an excellent combustible, and its ashes yield a large proportion of alkalı
"The bark of the white elm is said to be easily

detached during eight months of the year; soaked in water, and suppled by pounding, it is sometimes used for making ropes and for the bottoms of chairs. In France the wood of elm is usually employed for mounting artillery, and for this purpose it is selected The trees are cut to the with the greatest care proper dimensions, and the pieces are stored under shelter to dry during six or seven years; the precaution is even observed of turning them every six months, that the seasoning may proceed more uni-When fully seasoned, the wood is highly esteemed for the carriages of cannon, and for the gun-

wales and blocks of ships " Red Elm-Ulmus Rubra -This species of elm bears the names of red elm, slippery elm, and moose elm, but the first is most common The Canadian French call it orme gras The red elm is less multiplied than the white, and the two species are rarely found together, as the red elm requires a substantial soil free from moisture, and even delights in elevated and open situations, such as the steep banks of rivers. This tree is 50 or 60 feet high, and 15 or 20 inches in diameter In the winter it is distinguished from the white elm by its buds, which are larger and rounder, and which, a fortnight before their development, are covered with a russet down. The flowers are aggregated at the extremity of the young shoots. The scales which surround the bunches of flowers are downy like the buds. The leaves are oval, pointed, doubly denticulated, and larger, thicker, and rougher than those of the white elm. The bark upon the

trunk is of a brown colour.

"The heart-wood is less compact than that of the white elm, coarse-grained, and of a dull red tinge. It has been remarked, that the wood, even in branches of 1 or 2 inches in diameter, consists principally of perfect wood. It is said to be stronger, more durable when exposed to the weather, and of a better quality than the wood of the white elm, although coarser in the grain. In the United States it is accounted the best wood for blocks, and its scarcity is the only cause of its limited consumption.

"American Line, or Bass Wood—Tilia.—Although several species of the line-tree are found in North America, yet but one species flourishes in New Brunswick, which is usually called bass wood. It is generally found associated with sugar maple and white

" Bass Wood-Tilia Americana, is sometimes more than 80 feet high, and 4 feet in diameter; and its straight uniform trunk, crowned with an ample and tufted summit, forms a beautiful tree The leaves are alternate, large, nearly round, finely denticulated, heart-shaped at the base, and abruptly terminated in a point at the summit. The trunk is covered with a very thick bark; the inner bark, separated from the outer, and macerated in water, is formed into ropes, and also the broad planted bands used by the Indians for carrying their burthens. They formerly made their fishing lines and nets of this bark. The name bass wood is supposed to be a corruption from bast, which is applied to the European lime-tree by the rustics of Lincolnshire, because ropes were made from the bark.

"The twigs and buds of the bass wood tree are very glutinous when chewed, and afford considerable nutriment. In severe winters, when fodder is scarce, the farmers in Maine and Vermont, and sometimes in New Brunswick, drive their cattle into the woods of a morning, and fell a bass wood or other tree, on which they eagerly browse during the day. In winter this tree is easily recognised by the robust appearance of the trunk and branches, and by the dark brown of the colour on the shoots.

"In newly-cleared lands the stumps of the bass wood are distinguished by the numerous sprouts which cover them, whose growth can only be prevented by stripping off the bark, or by fire. The stumps of other large trees, the elm, sugar maple, and ash, left at the same height of 3 feet, do not produce shoots. The wood, when dry, weighs 35 pounds to a cubic foot. It is very white when green, but becomes of a light brown hue when seasoned. It is soft, easily worked, and is used for the panels of carriage bodies, seats of chairs, and the fans of fanning-mills. The wood is useless as fuel, being too full of sap when green, and of but little value when dry."

The following Table may be used for finding the *ultimate* transverse strength of any rectangular beam of timber:—

Rule.—When the beam is fixed at one end, and loaded at the other, the weight in pounds which it will support before breaking, will be obtained by multiplying the number opposite the kind of timber in the third column of the above table, by

the breadth and square of the depth of the beam both in inches, and dividing the preduct by the length, also in inches.

Table of the specific gravity, weight of a cubic foot, and relative transverse strength of different kinds of wood.

Numes of Materials.	ifio ity.	Weight of I cubic foot in Ibs	
Ash (English)	0 72	45	1,500
Ash (American)	0.64	40	1,800
Ash (American Black)	0 54	33 7	861
Ash (American Swamp)	0.92	57 5	1.165
Beech (English)	0.77	48 2	1,556
Beech (American Red)	0 78	487	1,720
Beech (American White)	0 71	44 4	1,380
Birch (English common)	071	44.4	1,820
Birch (American Black	0 67	41 9	2,000
Birch (American White)	0 65	406	1,604
Birch (American Yellow)	0 76	475	1,335
Cedar (Bermuda)	0 75	468	1,443
Cedar of Lebanon	0 33	206	1,493
Cedar (Canadian)	0 80	50.0	
Cedar (American White)	0 36	22.5	766
Elm (English)	0 59	36 9	1,013
Elm (Canada Rock)	072	450	1,970
Fir (Mar Forest)	0 69	43 1	1,232
Fir (New England)	0 55	34 4	1,102
Hickory (American)	083	519	2,020
Hickory (American Bitternut)	087	54.4	1,465
Iron-wood (Canada)	0 88	55 0	1,800
Larch (Scotch)	0.60	37 5	1,200
Larch (American Tamarack)	0 44	27 5	911
Mahogany (Nassau)	0.81	506	1,750
Mahogany (Honduras)	0 53	33 1	1,503
Greenheart (Demerara)	0 98	61.2	2,600
Maple (soft, Canada)	0 68	425	1,694
Maple (Rock American)	0 75	46.8	700
Oak (English)	0 84	52.5	1,700
Oak (American White)	0 78	487	1,740
Oak (American Red)	0 95	59 4	1,672
Pine (Red)	0 66	412	1,500
Pine (American Yellow)	0 46	28.8	1,300
Pine (American White)	0.43	26 9	1,160
Pine American Pitch)	0 70	438	1,700
Spruce	0.50	31 4	1,346
Spruce (American Black)	0 77	48 2	1,036

Note 1 When the beam is fixed at one end and loaded uniformly throughout, the result obtained by the rule must be doubled Note 2. When the beam is fixed at both ends and loaded in the middle, the result obtained by the rule must be multiplied by 6. Note 3. When the beam is fixed at both ends and loaded uniformly throughout, the result obtained by the rule must be multiplied by 12. Note 4. When the beam is supported at both ends and loaded in the middle, the result obtained by the rule must be quadrupled. Note 5. When the beam is supported at both ends and loaded uniformly throughout, the result obtained by the rule must be multiplied by 8 N.B.—Two-thirds of the foregoing results are reckoned fully sufficient for a permanent load.

CHAPTER III.

POPULATION, GOVERNMENT, RELIGION, EDUCATION, CRIME, AND INSTITUTIONS.

WHEN New Brunswick was first known to Europeans, it appears to have been inhabited by several different nations or tribes, of whom only two are yet in existence—the Mic-Macs and the Melicetes, or Morrisettes. The Mic-Macs speak a dialect of the Iroquois (or Six Nations), Huron, and other northern tribes. The Melicetes are descended from a Delaware or southern race; but in physical appearance they differ Both tribes are of a copper colour, with high cheek bones, hazel eyes, long, straight, coarse, black hair, and scanty They are of rather tall stature, erect, very active, not remarkable for muscular strength, but with great powers of endurance; a journey of seventy miles a-day being not unfrequently performed under a heavy burden; bears, deer, and moose, are pursued, and overtaken by them; in ascending and descending dangerous rapids, no Europeans can compete with the Indians; and the quickness of their perceptions in tracing men and animals by the trail or scent, is surprising. This latter quality the American Indian possesses in common with the Australian and other savages; but he is superior in many respects to other uncivilized races, and his ultimate extinction, which seems now mevitable, is much to be regretted. Long before the introduction of Europeans the savage and exterminating warfare carried on between the different tribes, was fast thinning their numbers; but the small pox and other diseases communicated by Europeans, and the supply of spirits, in the use of which the Indian can exercise no moderation, have caused their rapid and almost complete extermination. The total number in the province was in 1841, of Mic-Macs, 935; of Melicetes, 442 Both tribes are scattered in = 1.377.families in different parts of the province, and many wander about in poverty and wretchedness; 14 tracts of land, containing 61,273 acres of land, have been set aside by government as Indian reserves for their use. Most of them have been nominally converted to the Roman Catholic faith, and no efforts have been spared by the British

government to protect and civilize the aborgines of the country. Although both tribes inhabit the same country, their language is totally distinct. The Lord's prayer in each language is as follows:—

The Lord's Prayer in the Mic-Mac Language. Noorch enen waa-soke abin, chip-took, talwee-sin me-gay-day-de mek. Waa-soke-te-lee-daa-nen chip-took igga nam-win oo-la ne-moo-lek naa-dee la tay se-nen. Naa-tel waa-soke ai-keek chip-took ta-lee-ska-doolek ma-ga-mi guek ay e-mek. Tel-la-moo-koo-be-ne-gal es-me-a gul opch nega-a-tah kees-took igga-nam-win nes-el-co-nen. Ta-lee a-bik-chik-ta-kaa-chik wi-gai-nee-na-met-nick elk-keel-nees-kaam a-bik chic-too-in el-wa-wool-ti-jeck. Mel-kee-nin maach win-chee-gul mook-ta-gaa-lin hees-e-na waam-kil win-chee-gul ko qui-ak too-ack-too-in.—Quebec Version

The Lord's Prayer in the Melicete Language.

Me-tox-sen-aa spum-keek ay-e-en saga-mow-ee
tel-mox-se'en tele-wee-so-teek. Cheeptookee weechee-u leek spum-keektaun e-too-cheesauk-too leek
spum-a kay-e'en. Too-eep-nankna-meen kes-e keesskah-keel wek-a guleek el-me-kees-kaak keel-metsmin a-woolee. Ma-hate-moo-in ka-tee a-lee-wa-nayool-te-ek el mas we-che-a keel mecoke-may-keel nemas-hate-hum-too-mooin.

Each tribe has laws peculiar to itself, but a grand council is held annually at Pleasant Point, on the St. Croix river, of chiefs and delegates of the Penobscots, Mic-Macs, and Melicetes, where friendly relations are renewed; regulations to prevent collision in in hunting and fishing established, and measures for the general weal discussed and adopted. They say that the "Great Spirit" has permitted the "pale faces" to come into the country to kill the game, catch fish, and cut down trees, but that they are the lords of the soil, and the rightful owners of the land, the water, and the sky. belief in a resurrection is manifested by their burying with the dead the implements and trinkets he used on earth, and which, they believe, he will require in another world.

The early European settlers in the province were composed of American loyalists, who exiled themselves from their native country, in order to remain subjects of the crown of Britain. In 1783, 3,000 of these meritorious people arrived at St. John's from Nantucket, and joined a few families, who had migrated from New England in 1762, and settled at Mangerville, on the St. John's

river. These were joined by others, and by disbanded soldiers from provincial regiments, and subsequently by emigrants from Europe and by some Acadians. The hardships endured by the early inhabitants were very great—famine and cold caused much misery, but the energies of the Anglo-Saxon race carried them through all difficulties, until, in the language of Dr. Gesner, they have "finally covered the banks of the noble St. John with rich fields, villages, and cities."

The population has thus increased since

1783---

1803 27,000 1834 . 11	74,176 19,457 56,162
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Comparative Statements of the Increase of the Population since the Year 1824.

province.

•		•			
Counties	Total of persons in the year 1824	Countres	Total of persons in the year 1834.	Counties	Total of persons in the year 1840.
York .	10,972	York . Carleton	10,478 8,999	York Carleton	13,995 3,517 13,381 3,888
Saint John .	12.907	Saint John	20,668 7,761	Saint John	13,381 3,888 32,957 12,289
King's .	7,930	King's	12,195 4,265	King's	14,464
Queen's .	4,741	Queen's	7,204 2,463	Queen's .	8,232 1,028
Sunbury	3.227	Sunbury	3,838 611	Sunbury	4.260 422
Westmoreland	9,303	Westmoreland	14,205 4,902	Westmoreland	17,686 3,481
Northumberland	15,829	Northumberland	11,170)	Northumberland	14,620 3,450
		Kent .	6,031 9,695	Kent .	7,477 1,446
		Gloucester	8,323	Gloucester . Ristigouche	$\begin{bmatrix} 7,751 \\ 3,161 \end{bmatrix}$ 2,589
Charlotte .	9,267	Charlotte	15,852 6,585	Charlotte .	18,178 2,326
Grand Total in 1824	74.176	Grand Total in 1834	119.457 45.281	Grand Total in 1840	156,162 36,705

The paucity of inhabitants in some counties is remarkable: in Ristigouche there were in 1840, four hundred acres of area to each inhabitant; in Northumberland, two hundred and three; in York, one hundred and sixty-four; in Kent, one hundred and thirty-five. New Brunswick might, with ease, sustain ten times its present population.

The society at St. John's and Fredericton is composed of the civil and military servants of the crown, professional men, and merchants, who constitute the basis of colonial society in all our settlements; and are distinguished by the courtesy and intelligence which mark the same class in England. In the middle and lower classes, the habits and manners of the United States predominate; but all classes unite in loyalty to their sovereign, and attachment to the parent state. The number of charitable institutions—the efforts made for the diffusion of instruction —and the attention paid to the ordinances of religion, indicate the benevolence and piety of the people.

The women of New Brunswick are gene-

rally handsome, and of a fair complexion; the higher class are well educated, and often highly accomplished.

The estimated population of New Bruns-

wick at the beginning of 1848, was 208,012.

distributed as follows:—County of Ristigouche, 4,214; Gloucester, 10,334; Nor-

thumberland, 19,493; Kent, 9,769; West-

moreland, and Albert, 23,581; King's,

19,285; St. John, 43,942; Queen's, 10,976;

Sunbury, 5,680; York, 18,660; Carleton,

17,841; Charlotte, 24,287. Between 1834 and 1848, in the space of 14 years, the popu-

lation has been nearly doubled; not, how-

ever, by births only, but also by emigration. Yet there is abundant room, and, indeed

great lack of fresh settlers, for there are nearly 80 acres of area to each mouth in the

Form of Government.—Similar to that of Canada and Nova Scotia. The affairs of the province are administered, for the sovereign, by a lieutenant-governor, aided by an excutive council, consisting of 8 members; a legislative council of 17 members; and a House of Assembly of 39 representatives of the people.

The different Assemblies or Parliaments of New Brunswick have been as follows:—

Tun	ae o	f Meeting	Tım	e o	f D	ussolution
1786		. 3rd Jan.	1792			7th Dec.
1793		. 12th Feb.	1795			24th Dec.
1796		. 9th Feb.	1802			10th May
1803		. 9th Feb.	1809		1	11th July
1810		. 27th Jan.	1816			20th July
1817		. 4th Feb.	1819		:	24th March
1820		2nd Feb.	1820	Ċ		15th May
1821		. 13th Jan.	1827			24th May
1828		. 14th Feb.	1830			13th Sept.
1831		7th Jan.	1834	:		7th Nov.
1835		. 20th Jan.	1837	Ċ		18th Aug.
1837		. 29th Dec.	1842		:	1st Dec.
1843	Ī	. 31st Jan.	1846			16th Sept.
1847		. 28th Jan.		•	٠	wopu

Population of the Province of New Brunswick in the year 1840, according to the latest Census taken by direction of the Provincial Legislature.

•			Whr	tes.		P	Peopl Colo	le of				P	lace	s o	f	T	Jo A
City, County, or District.	Inhabited Houses	Males above 16	Males under 16	Females above 16	Females under 16	Males above 16	Males under 16	above	Females under 16	Total of Persons	Church of England.	Presbyterian.	Methodust	Baptıst	Roman Catholic	Other Denominations	Estimated quantity cleared Land.
YORK Fredericton, City Santt Mary Douglas Kingselear Queensbury Prince William Southampton Dumfries	489 318 424 262 162 149 85 116	1,061 610 656 464 306 256 167 219	829 530 650 410 279 254 146 188	1,166 469 595 386 254 193 120 158	798 523 634 417 245 213 142 187	28 3 30 25 12 6 0	43 3 22 29 15 4 0	48 3 30 35 20 7 0	29 1 13 26 13 10 0	4,002 2,158 2,630 1,792 1,144 942 575	2 1 1 1 0	100000000000000000000000000000000000000	2 2 0 0 0 0	1 2 1 0	1000	000000000000000000000000000000000000000	1,696 6,117 9,038 11,997 7,007 3,320 2,241 3,402
CARLETON — Woodstock Northampton Kent Brighton Perth Wicklow Wakefield Andover Madawaska	482 76 61 170 54 115 330 87 542	906 136 122 305 105 208 612 184 975	758 138 133 337 86 180 651 147 1,000	769 124 88 264 74 168 511 119 862	745 109 117 294 95 188 559 137 1,034	3 1 6 0 2 0 8 0 2	2 0 3 0 0 0 6 0	2 0 2 0 0 0 6 0	1 0 2 0 0 0 5 0	3,186 508 473 1,200 362 744 2,358 587 3,963	000000	000000000000000000000000000000000000000	0 0 0 0 0 1	0 0 0 2	100000000000000000000000000000000000000	000200300	9,757 1,770 2,008 4,842 1,283 2,500 6,650 2,643 18,500
SAINT JOHN — City of Saint John—North District Parish of Portland Carleton Lancaster Saint Martin's Simonds—North District King's South District	700 718 455 158 219 264 211	2,440 1,783 387 426 640 345 359	1,982 2,079 1,322 327 381 465 291 221	2,920 2,784 1,825 369 357 438 276 254	1,890 2,137 1,239 327 351 460 253 239	24 0 30 21	10 66 7 10 21 0 16 28	37 121 15 7 25 0 46 30	14 65 5 4 17 0 17 23	9,516 9,766 6,207 1,436 1,605 1,975 1,274	0 2 0 1 1 1 2 1 3 0 4 2 5 0	0000	1 1 0 1 0 0 0	0 1 0		1 2 0 2 0 0 0 0	0 1,071 90 4,446 4,635 5,311 3,581
Kingston Sussex Hampton Nortou Westfield Springfield Greenwich Studholm Upham	303 342 276 159 228 288 160 305 136	592 655 295 402 426 287 585	457 513 478 242 454 438 255 550 250	520 522 476 256 377 419 291 441 188	46/ 506 44/ 190 410 420 230 400 211	17 10 10 10 5 7 7 7	12 4 9 0 8 4 1	11 4 9 3 4 2	4 5 0 6 4 8 3 0	2,00 2,17 2,07 1,01 1,66 1,73 1,08 1,98	8 1 2 2 7 1 1 1 3 1 0 1 8 1			1 1 1 2 2 1 2 2	0 0 0	0000	8,914 5,101 6,298 9,518 5,450 12,394
Gusen's — Gagetown Canning Wickham Waterborough Brunswick Hampstead Johnston Petersville Chipman	120 160 17. 3: 13: 15:	265 306 2 354 3 62 2 233 5 294 0 222	192 213 314 302 57 191 214 232 239	229 236 263 325 53 190 243 188 181	311 32: 41 22: 27: 21:	8 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0 8 0 11 0 0	0 0 4 0 8 0	8 0 6 0 9 0 2	86 95 1,20 1,32 22 87 1,03 85	2 1 1 0 9 1 0 0 9 1 0 0 6 1			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00000001	1 0 0 2 1	3,366 8,892 7,774 964 6,799 5,710 4,459
SUBURY — Maugerville Sheffield Button Lincoln Blissville Wastnorman	144 15' 71	0 305 7 325 8 156 9 235	162 224	264 138 183	29 24 13 19	9 (6)	0 0	0 1 0	0	55 1,13 1,14 59 83	4 1 3 0 3		1		0000	01002	3,234 3,101 2,589 1,133
WESTMORBLAND Dorchester Sackville Westmoreland Botsford Shediac Moneton Salisbury Coverdale, Hillsborough Hepewell Harvey	32 18 26 27 20	9 668 6 343 5 436 8 463 2 391 2 378 3 167 5 263 2 259	573 347 463 514 414 868 160 263 288	581 336 406 428 339 333 164 246 230	53 56 56 56 56 56 57 58 58 58 58 51 51 52 52 52 54 54 54 54 54 54 54 54 54 54 54 54 54	7 5 11 9 6 8 6 6 6 7 6 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6		3 6	17 0 6 0 0 0	1,02	6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	100000	100000	1	100	000000000000000000000000000000000000000	16,924 10,029 10,390 6,479 7,076 7,454 5,110

Population of the Province of New Brunswick in the year 1840, according to the latest Census taken by direction of the Provincial Legislature—(continued.)

NORTHUMBERLAND — Newcardie . 404 8.33 679 720 779 2 0 0 0 0 3,013 0 1 1 0 0 0 2,00				Wh	ites.		1		ole o						es c			thty of
Newcastle	(ity, County, or District.	Inhabited Houses	ароте	Males under 16	Females above 16	Females under 16	above	Males under 16	ароме	under	Total of Persons.	Church of England	Presbyterian	Methodist		Roman Catholic	Other Denominations	Estimated quan
Richbueto . 315 582 506 488 511 1 0 0 0 2,088 1 1 2 0 2 0 4,565 Carleton . 220 588 413 840 333 0 0 0 1,644 0 1 1 0 3 3,73 Wellington . 237 477 202 374 399 0 0 0 0 1,442 0 0 1 0 1 0 3 3,73 Wellington . 237 477 202 374 399 0 0 0 0 1,462 0 0 1 0 1 0 4,10 Weldford 192 311 289 224 304 0 1 1 0 1,130 1 1 0 0 1 0 4,10 Harcourt	Newcastle Chatham Ludlow Northeak Alnwick Blassfield Blackville Glenelg Nelson	441 81 220 138 68 195 237	1,118 208 422 288 162 415 393	768 112 394 239 136 347 297	862 131 330 243 105 263 272	749 147 430 257 122 330	0 0 2 0	0 0 0 0 0	1 0 0 0 0	000000	3,503 699 1,577 1,027 645 1,357 1,351	0 0 0 0 1 1	2 0 0 2 0	00000	0 0 1 0 0 1	0 1 5 0	0100000	2,000 3,660 1,626 8,103 2,011 2,333 3,048 8,828 3,624
GLOUGEFER —	Richibucto Carleton Wellington Dundas Weldford Huskisson, (without population)	220 237 176	538 477 281	413 202 322	840 374 250	353 399 309	0	0	0 0 1 1	0	1,644 1,452 1,163	000	8	0	0	2 3 1 2 1	0	4,563 3,735 4,829 3,182 4,104
Dalhouse 136 486 233 186 181 4 1 2 2 1,095 0 1 0 0 0 0 2,000 2,0	GLOUCESTER — Saumares Caraquet New Bandon Beresford Bathurst	226 290 112 166	516 174 292	564 190 324	456 148 283	389 539 188 315	0	0	0	0 0 0	2,075 700 1,214	0	0	000	000	1	0	1,775 3,256 2,270 1,558 2,822
Samt Stephen's 496 932 816 864 794 0 0 0 0 3,405 3 1 3 0 1 0 4,28	Dalhousie Addington Durham Colborne Eldon	121 85 76 8	254 154 140	190 140	173 108 109	193 130 118	0 0	0 0	0 0 0	0 0	536 500	0	1 0 1	000	0	0	000	2,168 832 1,032 1,520 27
Countý of York	Santi Andrew's Sant Stephen's Sant David Santi George Santi Fatrok Santi James Pennfield Grand Manan West Isles Campo Bello	495 171 363 294 179 168 154 178	932 405 600 513 327 285 259 226	815 410 569 537 290 205 273 308	864 391 631 411 282 233 238 287	794 403 614 552 256 260 233 304	0 0 3 0 0 0	000000000000000000000000000000000000000	0 5 0 0 0 0	0000000	3,405 1,609 2,422 2,013 1,155 1,043 1.003	3 1 1 1 1 1 1	1 0 1 1 1 0 0	3 1 0 1 0 0 0	0 1 2 1 0 1 0 2	10110000	01000010	5,309 4,225 4,886 4,097 5,206 4,499 2,235 2,671 1,000
"Charlotte 2,622 4,637 4,578 4,473 4,436 12 13 24 6 18,178 11 6 6 8 4 2 36,13	County of York Carleton Sunt John King's Queen's Sunbury Westmorland Northumberland Kent Gloucester Rastgouche	1,917 2,806 2,178 1,168 573 2,467 2,037 1,140 1,085	3,553 8,993 3,856 2,215 1,165 4,486 4,360 2,189 2,034	3,520 7,076 3,637 1,954 1,094 4,600 3,396 1,732 2,003	2,979 9,223 3,490 1,908 986 4,170 3,288 1,676 1,773	3,278 6,896 3,307 2,061 1,001 4,360 3,560 1,876 1,941	22 183 58 23 4 15 11 1	11 158 43 23 18 18 1 1 0	10 281 43 23 5 14 2 0	8 145 30 25 3 23 0 0	13,381 32,957 14,464 8,232 4,260 17,686 14,620 7,477 7,751	3 8 11 5 2 4 4 1 0	2 3 0 1 2 9	2 5 6 1 1 11 2 4 1	4 12 7 1 13 2 0	4 2 2 0 6 8 9 9	5 5 0 4 3 0 1 0 0	44,818 49,953 19,134 69,452 43,089 12,262 99,022 26,323 20,413 11,681 5,579 36,135

REMARKS—County of York—In the estimation of the cleared Land, the Town to the County of the County o

Military Defences .- An excellent militia. consisting of a regiment of yeomanry cavalry, of 10 complete troops stationed in different counties; 3 separate troops of cavalry; a regiment of artillery, with a lieutenantcolonel, 2 majors, 9 captains, 8 first and 7 second lieutenants and staff; 18 regiments of militia divided into battalions, and including light infantry and rifle corps. The militia commissions comprise 63 field officers, 380 captains, 786 subalterns, 120 staff, 1,030 sergeants, 60 drummers, and 27,200 rank and file.

The militia, by the military act of 17th March, 1825, are hable to be called out three days in each year—one for general muster, and two for company drill. They were only called out one day in 1848. The organization of the militia is complete, and a number of volunteer companies at St. John, Fredericton, and other places, are armed and trained. The sports of the country have made many of the militia excellent marksmen. and, as in Canada, they would be formidable adversaries to an invader.

The annual expenses of the militia are salary of adjutant-general, £85; quartermaster-general, £150; to each adjutant, £15 (£510); and £7 10s. to each sergeantmajor (£250); total, £1,000.

The military posts at New Brunswick

Military P	osts		Barrack	s for-
St John . Fredericton St. Andrew's Pegele .	:	:	Officers 14 20 4	Men 632 439 30 164

The pecuniary allowances, expense for ra tions, quarters, or other advantages, are provided by the colony. There is a bounty of £5 allowed by the Provincial Legislature for the apprehension of deserters from her majesty's forces, provided the amount do not exceed £100 per annum.

The Judicial Department comprises a Supreme Court, with a chief and three puisne judges; a court of Chancery, one of marriage and divorce, and one for the trial of offences committed at sea-over these three courts the lieutenant-governor presides; a court of vice-admiralty, and one of probate. There are commissioners of bankrupts' estates. The "Barristers' Society" numbers 57 members; the roll of barristers and attorneys in 1849 contained 155 names. British America both branches of the law are practised by the same individual.

Ecclesiastical Department in 1849.

Denomination	Number of Clergy	No of Churches	No of Chapels	No of Reading Places	Church Accommo- dation	Generally Attending	Parsonages	Glebes
Church of England in 1847 . {	1 Bishop	61			17,920	Unknown	20	
Church of Rome in 1846	24 Priests	} 60			37,000	32,300	28	21
Church of Scotland in 1847 .	8 Ministers	27			11,980	8,980	7	14
Wesleyan Methodists in 1847 { Baptists in 1846	21 Ministers 33 Local Preachers 41 Ministers	: :	57 65	119	26,000	} 22,500 19,290	• •	• •

There are also about 12 ministers of the Presbyteman church in New Brunswick, and of the Reformed Presbyterian church; and there are 4 Congregational ministers. There is a Church and an Auxiliary Bible Society. The protestant diocese of Fredericton was created in 1845. The clergy of the Established Church derive their principal support from the "Society for the Propagation of are about 90 parishes and 60 churches, tions. capable of holding 20,000 persons. VOL. I.

Gesner says, that double the number of clergymen of the Established Church could The Roman be advantageously employed Catholic diocese includes Prince Edward Island. The Roman Catholics are principally the Irish and Acadians; their clergy are supported by subscriptions, fees, pew-rents, and tithes. The Presbyterian church was established by ministers sent from Scotthe Gospel in Foreign Parts." The hvings land in 1817; they have churches in are from £200 to £300 currency. There different counties, and with large congrega-The Wesleyans are a numerous and Dr. respectable body. Their ministers are paid

as highly as those of the Established Church. according to their being married or unmarto their length of service in the ministry. The Baptists are divided into several sects, but they are generally serious and wellconducted. Their established faith is contained in 17 articles, and they meet annually to adopt regulations for the preservation of harmony. "Camp meetings" are occasionally held in New Brunswick, and on the United States frontier.

EDUCATION is carefully and judiciously extended. The university of King's College, at Fredericton, established in 1828, by Sir Howard Douglas, has for its patron the Queen, and is well supplied with professors in different branches of literature and science. For superior degrees, the terms and exercises correspond with those of the Eng-The religious exercises lish universities. are those of the Church of England, and candidates for degrees in divinity are required to subscribe to the Thirty-nine Articles of the church. The college is endowed with 6,000 acres of valuable land, near Fredericton, has a grant from the crown of £1,000 sterling per annum, and £1,000 from the Provincial Legislature. Scholarships of £20 and £25 have been founded, and are given to students of merit expense of tuition and board is about £35 currency per annum. Candidates for matriculation are required to be acquainted with the Latin and Greek languages, and the rudiments of algebra and geometry. The mstruction is devoted to the classics, mathematics, natural philosophy, chemistry, natural history, intellectual philosophy, logic, and the evidences of religion, natural and revealed; moral philosophy, general history, Hebrew, theology, and French. The academical year has four terms; and four years are required for the degree of Bachelor of There is no distinction in reference to religious profession, age, or otherwise. There is a collegiate school at Fredericton, which educates boys preparatory to matriculation. The Wesleyans and Baptists have each a superior academy for instruction There are grammar and parish schools in each county: the supervision of the former is vested in a board of trustees, appointed by the lieutenant-governor and council, and the general management of the latter is, by an act of the House of Assembly (10 Vict., and council, as a board of education. Nine males, 2. Untried—whites, males, 4; females,

schools is the average number permitted to be established for each parish; but the ried, to the number of their children, and number may be increased to thirteen, provided the whole number in the county to which the parish belongs does not exceed the established average. The government allowance to teachers in the parish schools is. per annum. £30 first class. £22 second class. and £18 third class. The emoluments of the teachers, exclusive of the government allowance, range from £20 to £100 per annum.

Public Schools in New Brunswick.

		ram hools		Parish Schools.							
Counties	Number	Scholar	Number	Teac	hers	Sch	olars	Total Scholars			
	ž	Sc	ž	M	F	M	F	Sel			
York St John Charlotte King's Queen's Sunbury Carleton Ristigouche Gloucester Northumberland Kent Westmoreland Albert	1 1 1 1 1 1 1 1 1 1 2 -	76 59 69 30 15 30 31 38 72 — 42	60 48 69 64 47 25 35 13 24 53 35 71 27	49 39 44 50 43 17 30 10 14 46 29 56 18	11 9 25 14 4 8 5 3 10 7 6 15 9	944 1550 1206 1096 661 382 418 150 324 1086 473 1061 386	941 960 926 835 510 334 338 141 335 861 376 900 323	1785 2510 2132 1931 1171 716 756 291 659 1947 850 1961			
Total	11	486	571	445	126	9737	7680	17903			

The Press -There are eight printingoffices, whence issue eight newspapers, conducted with ability; but occasionally, as may be supposed, with considerable party acrimony. The New Brunswick Courier, and Royal Gazette, contain much valuable local and statistical information. All the towns have libraries, more or less extensive. The New Brunswick Almanack and Register, prepared under the superintendence of the Fredericton Athenaum, is one of the fullest and most complete publications of the kind in the British empire. Music and drawing are cultivated to a certain degree; and there are occasionally lectures on astronomy, chemistry, elecution, and the belles-lettres. St. John's, St. Andrew's, and Fredericton, there are public reading-rooms, where all the leading British and foreign newspapers and periodicals are regularly received.

CRIME.—The number of felons, in 1848, in prison, was-of tried, whites, males, 31; females, 2: blacks, males, 2; females, 1. Untried-whites, males, 5; females, 1: blacks, males, 1. Misdemeanors — tried — whites, ch. 56), vested in the heutenant-governor males, 32; females, 14: blacks, males, 2; fe-

1; blacks, females, 1. Debtors—whites, marine hospital, into which the admissions. males, 45; females, 2: blacks, males, 1. The total number of prisoners in confinement at Michaelmas, 1848, was-whites, males, 115; females, 19: blacks, males, 6; females, 4. Greatest number in confinement at any one time in the year-whites, males, 149; females, 27: blacks, males, 3; females. 6. The prisoners are kept at hard labour in and out of gaol. Of the white prisoners, the number who could not read, were-males, 28; females, 1. The number under 18 years of age, were-males, 14: females, 1. There were no deaths in the prisons of New Brunswick during the year. There is a gaol in each county, which is under the jurisdiction of the sheriff and magistrates of the county, who visit the prison from time to time. There is no fixed system of management or discipline.

Public Institutions.—There is an excellent

during 1847, were-with fever, 223; other diseases and accidents, 236=486. deaths during the year were 29, of whom 13 were from fever, 6 from inflammation of the lungs, 2 from dysentery, and the remainder from other diseases. 409 patients were discharged cured. The expense of the hospital during the year was £2,116, including £303 for the purchase of land: buildings and mason-work, £536; labour, cartage, &c., £165. There were 10,939 diets during the year, which cost only £301. There is a lazaretto on Sheldrake Island, Miramichi, which costs £600 a-year. There have been, for some time, 9 lepers on the ısland-4 men, 1 boy, and 4 women.

There is a provincial lunatic asylum, which, in 1847, contained 140 patients, classed as follows :---

Patients	Age 10 to 20	Age 20 to 30	Age 30 to 40	Ag# 40 to 50	Age 50 to 60	Age 60 to 70	Age 70 to 80	Total
Males	5 6	25 21	23 18	18 14	5 1	0 3	0 1	76 64
Total	11	46	41	32	6	3	1	140

The Record shows

Patients	Males	Females	Total	Disch	arged	Eloped	Died.	Remaining
	•			Cured	Uncured			
Old Cases in Asylum 1st January 1847 }	39	39	78	13	1	2	3	59
Admitted in 1847, and Readmissions }	47	26	73	34	0	1	5	33
Total	86	65	151	47	1	3	8	92

Character of disease on admission—ordinary insanity, 109; epileptic insanity, 7, delirium tremens, 8; imbecility, 4; furious madness, 7; idiotcy, 2; hydrophobia, 1, brain fever, 1; paralysis, 1. Total, 140.

The admissions from the different counties were, St. John's, 77; Charlotte, 21; King's, 14; York, 13; Carleton, 7; Northumberland, 7; Westmoreland, 5; Gloucester, 3; Sunbury, 3; Kent, 1. Total, 151. Expenditure for the year, £1,627. Average annual number of patients, 84; keepers, 12. Average cost per head, weekly, of patients alone, including all expenses, 7.5 per head

Among the institutions of the city of St John's is a Chamber of Commerce, a Sailors' Home, Mechanics' Institute, a District Committee of the Society for Promoting Christian Knowledge, a Religious Tract Society, an Orphan Benevolent Society, a Sacred Music Society, Ladies' Benevolent Society, Young Ladies' Total Abstinence Society, and St John's Auxiliary to the New British and Foreign Temperance Society (on the total abstinence principle).

The gradual increase of lunacy, in New Brunswick, is shown by the admissions into the asylum between 1836 and 1846 .-

Years	Admitted	In Asylum 1st Jan	Total	Remain- ng Dec 31
1836	31		31	14
1837	40	14	64	21
1838	29	21	50	21
1839	39	21	60	24
1840	48	94	72	40
1841	68	40	108	54
1842	43	24	97	52
1843	47	52	99	56
1844	60	56	116	69
1845	50	69	119	94
1846	62	74	136	78

CHAPTER IV.

REVENUE AND EXPENDITURE, TARIFF OF DUTIES, BANKS AND COINS, COMMERCE, IMPORTS AND EXPORTS, STAPLE PRODUCTS, AGRICULTURE, MANUFACTURES, AND FISHERIES, BANKS, MONIES, PRICES OF COMMODITIES, WAGES OF LABOUR, &c.

REVENUE.—In 1727, the public income of the province was, in round numbers, £742; in 1789, £962; in 1794, £1,569; in 1807, £3,781; in 1814, £25,878; in 1827, £34,000; in 1837, £60,000; and in 1847, £127,000. Estimating the permanent revenue at £120,000, and the present population at 220,000, the taxation is not much more than 10s. per head annually.

Comparative Statement of the Revenue of New Brunswick, and the sources whence derived, in the years 1846 and 1847.

Sources of Revenue	1846.	1847
Ordinary revenue	47,774	50,287
Export duty	22,664 30,961	16,553 31,912
Casual revenue	7,600	9,500
Loan fund	8.281	9,571
Supreme court fees	454	792
Auction dues	407	246
Pedlars' licences	45	27
Emigrant duties	2,129	3,250
Light-house ditto	4,817	3,700
Sick and disbanded seamen .	2,230	1,566
Total (less shillings and pence)	£127,326	127,410

In 1848, there was a considerable diminution in the revenue of the province, owing to commercial embarrassment, and especially to the depression in the timber and deal The debt of the province is about £80,000. The emigrant tax is levied at the rate of 5s. per head, and appropriated to the benefit of all immigrants. The custom duties are levied under the authority of a Revenue Act, passed in New Brunswick, 30th March, 1848, which imposes a tariff of discriminating duties, in favour of British and colonial produce, growth or manufacture, compared with foreign. This tariff was adopted after the "free import" system of England was enforced, and indicates the desire of the colonists to view England as the parent state. In Canada and Nova Scotia no distinction has been made in the duties levied, on British, and on foreign products. [See Canada Tariff, vol. 1, p. 145.]

It will be seen by the following table, that the discriminating duties are as high as 100, 200, and 300 per cent. in favour of England:—

Tariff of Duties in the Province of New Brunswick, under the Revenue Act, passed 30th March, 1848.

Articles subject to Duty	tish Col pro- gro or n	Bri- and onial duce, wth, nanu- ture	pro gro	Fo- ugn duce, wth, nanu- ture
Specufic	£	s d	£	s d
Apples, per bushel	0	0 6	ō	0 6
Butter, per cwt .	0	4 6	0	90
Candles of all kinds, except sperm and			_	
wax, per lb	8	01	0	$0.1\frac{1}{2}$
Sperm and wax, per lb Cattle of all kinds over one year old	1	0 3	2	0 4
Cheese, per cwt,	ô	3 0	ő	60
Clocks or clock cases of all kinds, each	۱ŏ	50		15 Ö
Coffee, per lb	Ō	0 1	Õ	0 11
Coffee, per lb Fish of foreign taking or curing, dried	l _			_
or saited, per cwt .		ree	0	26
Pickled, per barrel		ree 50	0	50 76
Fruit, dried, per cwt	0 2	5 O	3	6 6
Horses, mares, and geldings, each Leather, sole, per lb	ő	0 14	n	0 24
Upper leather, per lb .	9	0 1	۱ŏ	0 34
Harness and belt leather, per lb	0	0 1	0	0 2
Sheep skins, tanned and dressed, per doz	0	26	0	3 0
Calf skins, tanned, per doz	0	26	0	60
Malt liquors of every description (not	1		1	
being aqua vite, otherwise charged with duty), whether in bottles or	1		1	
otherwise, per gallon .	0	0 3	0	06
Meats, fresh, per cwt	Ŏ	4 2	ŏ	6 3
Meats, fresh, per cwt , salted and cured, per cwt	0	26	0	50
Molasses and treacle, per gailon .	0	0 1	0	0 8
Spirits and cordials, viz -	0	3 0	٦	
Brandy, per gallon Rum and other spirits, and cordials	١٠	3 0	0	3 0
For every gallon of such rum or other	1		1	
spirits or cordials of any strength,	1		ı	
under and not exceeding the	i		١.	
strength of proof of 26 by the bubble	0	10	0	13
And for every bubble below 26 in	1.		١.	
number, an additional, per gal	0	02	8	10
Lemon syrup, per gal Sugar, refined, m loaves, per lb	ő	0 1	ŏ	0 2
" refined, crushed, per cwt .	l o	5 0	lŏ	10 0
" of all kinds, except refined and	1		1	
crushed, per cwt	0	26	0	60
Tea, per lb	0	0 2	0	02
Tobacco, manufactured, except Snuff	0	0 1	١,	0 1
and cigars, per lb	0	3 0	١ŏ	3 0
Wines, per gallon Wheat flour, per barrel	lő	ĭŏ	lŏ	20
Ad-valorem	1		1	
On the following articles, for every one			1	
hundred pounds of the true and real	1		1	
value thereof, videlicet	1		1	
Boots, shoes, and other leather manu-	14	n 0	30	0.0
Carriages, waggons, sleighs, and other	1	0 0	الم	00
Vehicles	4	0 0	30	0 0

Articles subject to Duty.)n itish	Fo	On reign	L
Chairs, and prepared parts of or for chairs, clock wheels, machinery, and materials for clocks; household fur- inture (except the property of pas- sengers and emigrants, for their own use, and not intended for sale), look- ing-glasses, oranges and lemons, whale oil (except the return cargoes of vessels fitted out for fishing voy- ages from ports in this province), wooden wares of all kinds, matches, corn brooms and brushes; hat and hat-bodies					
	2	0 0		0 0	
	10			0 0	
Cordage		ree.		0 0	
Bread and biscuit	4	00		00	
All other goods, wares, and merchan- duse, not otherwise charged with duty, and not hereafter declared to be free of duty, for every hundred pounds of the true and real value thereof.	4	0 0	15	0 0	
and m to the some sure and difficulty	-		TO	v	

Exemptions from Duty -Anchors; ashes; baggage and apparel not intended for sale; barilla; beans and peas; books, printed; burr stones, canvass; carriages of travellers not intended for sale; chain cables and other chains for ships' use; coal tar, coals; coins, bullion, and diamonds, composition nails and spikes for ship building; corn, wheat, rve, Indian corn, barley, oats, rice, ground and unground, and buckwheat unground, barley meal, rye flour and meal, oatmeal, Indian meal, buckwheat meal, and calavances; cotton wool and cotton warp; copper in sheets, bars, and bolts, for ship building, corn broom brush; dog stones; duck; dye wood; eggs; felt; fishing-craft utensils, instruments, and bait; fruits, fresh roots, and vegetables of all kinds, except apples, oranges, and lemons, furniture, working tools, and implements, the property of emigrants, not intended for sale; gypsum, ground and unground; hemp, flax, and tow; hides, green and salted, iron in bolts, bars, plates, sheets, and pig iron; lines and twines for the fisheries; looking-glass plates; manures of all kinds, mill saws; morocco skins, nets and seines, oakum, oil, blubber, fins, and skins, the produce of creatures living in the sea, the return of vessels fitted out in this province for fishing voyages; oil—seal, cod, porpoise, palm, and rape; ores of all kinds, pitch; plants, shrubs, and trees, poultry of all kinds; printing paper; quicksilver; rags, old rope, and junk, rock salt; rosin; sail cloth of all kinds; salt, seeds of all kinds; sails and rigging saved from vessels wrecked; sheathing paper; ships, ship tackle, and apparel; skins, furs, pelts, or tails, undressed, soap grease; spikes and sheathing nails, steam-engines, boilers, and machinery for mills; stone, unmanu-factured; tallow; tar; tin in sheets and blocks, tobacco, unmanufactured; turpentine; varnish of all kinds; wood and lumber of all kinds, except cedar, spruce, pine, and hemlock shingles; wool; zinc

In addition to the foregoing rates of duty, one per cent. is charged, under the Loan Act, on all manufactured goods, without any exemption, except those of British colonies.

Loan Fund.—This fund has been raised by a duty imposed, in 1843, on British and foreign importations, to provide for the redemption of the debt contracted previous to the year 1841, and which will be liquidated by instalments in fourteen years.

Expenditure.—This is shown in the following statement of disbursements for the past two years. The calculations are in sterling money, and the shillings and pence are excluded in the totals.

	Yea	rs.
Items.	1847.	1848
Civil list	£12,083	£12.083
Pay, &c., of legislature	7,332	6,576
Collection of revenue, &c	3,152	5,354
Judicial establishment	2,029	1.987
Provisional contingencies .	375	540
College and grammar schools.	1,958	1,968
Parish and Madras " .	10,209	11,868
Printing laws, journals, &c	1,446	8,823
Great roads	18,541	20,518
Bye-roads, &c	13,426	11,461
Navigation of rivers	1,187	1,000
Public buildings	873	816
Wharfs and landings	895	575
Couriers and packets	987	1,337
Lunatic asylum	9,464	1,360
Provisional penitentiary	1,291	1,250
Destruction of bears & wolves	187	320
Bounty for erecting oat mills .	250	41
Agricultural societies	1,666	5,125
Relief of emigrants	5,098	12,122
Charitable purposes	4,634	2,621
Indians	300	333
Return duties	347	455
Miscellaneous	3,855	2,656
Interest on sums borrowed .	4,418	5,106
Light-houses	3,661	3,890
Sick and disbanded seamen .	3,145	1,426
" Ordinary " .	852	754
Military contingent	104	76

Total | £113,775 | £115,353

In 1837, the New Brunswick Legislative Assembly sent two delegates to England to represent that the colonists had not sufficient control over the levying and disbursement of provincial taxes. The crown thereupon relinquished its rights entirely, in consideration of a fixed civil list, of £14,500 currency per an. being guaranteed. Since then, the colonists complain that the British government gave up some of their best timber districts to the United States, under the provisions of the "Ashburton treaty," in 1842, for which deprivation they consider they ought to have received compensation. As the population of the province increases, the amount of the civil list (which is really not large) will be more easily borne by the colonists. Poor-rates are in general moderate throughout the province; county rates are occasionally levied for local purposes, and there is a statute labour for the roads, commuted on a graduated scale of property, trade, or official income. three days' annual service for the militia,

required of all males between 16 and 45 Brunswick has a capital of £100,000; Comyears of age, is, in the event of non-atten- mercial Bank of New Brunswick, capital, dance, compensated by a fine of 10s. for each £150,000; Central Bank of New Brunswick. day's absence.

monetary institutions. The Bank of New North America, capital, £1,000,000.

capital, £35,000; St. Stephen's Bank, capi-Banks.—The province possesses several tal, £25,000; Branch of the Bank of British

Position of the Public Banks.	Central Bank of New Brunswick.	Commercial Bank of New Brunswick	Bank of New Brunswick.	Charlotte Bank.	St Stephen's Bank	Totals
Capital stock paid in	£ 35,000 42,247 575 26,790	£ 150,000 72,279 19,928 15,727	£ 100,000 45,746 — 40,847	£ 9,268 341 24,036	£ 25,000 15,906 3,735 5,350	£ 310,000 185,446 24,579 112,750
Cash deposited bearing interest . Profits in hand	482 7,826 112,922	17,360 — 288,174	5,716 192,311	1,002	2,855 52,847	17,842 17,399 668,016
RESOURCES:— Gold, silver, and other coined metals Bills of other provincial banks Balance due from other banks Debts due, including notes, bills of exchange, &c	£ 4,047 868 3,910 102,728	£ 12,369 8,852 28,181 229,975	£ 20,590 6,383 18,275 143,539	£ 1,783 1,341 31,574	£ 4,036 177 141 45,989	£ 42,825 17,621 82,081 522,231
Real estate	1,367	8,795 288,174	3,522 192,311	34,648	720 52,847	14,404 679,162

Coin.—The amount in circulation not ascertained.

Paper money consists of the notes of the banks of New Brunswick, British North America, Central, St. Stephen's, and Charlotte County. The total amount in circulation, in 1848, about £198,000.

Sir W. M. G. Colebrooke, C.B., governor of New Brunswick, in a report to Earl Grey of 8th April, 1848, speaking generally of the North American Colonies, says:-

"It is much to be regretted that a general revision of the monetary system of the colonies should not have been effected by Parliament. The continuance of nominal currencies, having reference to no acknowledged standard, and originating in the English denominations given to Spanish coins no longer current, but which circulated in the colonies on their first settlement, is an anomaly which was corrected in the United States after their separation by establishing a dollar currency, divisible into cents. The establish-ment of British sterling as the money of account, as a general measure, would be attended with great advantage to the commercial classes, and tend to simplify transactions with the United Kingdom and also with the United States. It may be objectionable to make gold the standard of the colonies, where silver for the most part circulates; and by a slight alteration in the value of the halfpenny to the 1-20th part of a shilling, 1-50th of a half-crown, and 1-100th of a crownpiece, calculations would be as much facilitated as they are in the United States, by the substitution of dollars and cents. The difference between the provincial currency and sterling is 11 1-9th per cent. The amount of bank paper in circulation in 1845 is returned at £225,000 currency The amount returned in 1840 and 1841 was £350,000. In 1842, owing to commercial embarrassment and the decline of credit, it fell to £110,000, in 1843 to £72,000, and 1844 the amount was £80,000.

"The banking system in the province is not on a satisfactory footing; and it is to be regretted that the proposal for establishing a provincial bank was not entertained by the Legislature, and that none of the banks now established, afford any accommodation to the agricultural classes. As before observed, farmers, unable to obtain cash credits or other advances, have not only been restricted in extending their operations depending on hired labour, but in remote districts are discouraged from seeking markets for their produce, when they are often reduced to barter."

There are several joint-stock companies-St. John's Water company, capital £20,000; St. John's Gas Light company, capital, £20,000; St. John's Mechanics' Whale Fishing company, capital, £50,000; a Rural Cemetery company, an Electric Telegraph company, a Mining company, Steam Ferry company, St. Andrew and Fredericton Railway company, building societies, &c.

Between 1835 and 1840, joint-stock companies were formed, whose united stocks amounted to £2,000,000. All these have not, however, gone into operation.

The Central Fire Insurance company has a capital paid in of £10,000; and £40,000 secured by bonds of two sureties.

There is a marine insurance company. The amount under-written, during the year 1847, was £585,049; and the premiums, £20,107. Amount written off during the year, as determined, cancelled, and lost, £482,307. Outstanding risk, 6th July, 1847, £102,742. Loss sustained during the year ending 1st July, 1849, £30,774. Capıtal stock and assets of the company, £56,501. Of this, paid up, £20,000. In the six months. ending January, 1848, the amount underwritten was, £315,864. The premiums thereon £11,574. Loss, and probable loss sustained, £11,120.

The Globe Insurance Company of New Brunswick, has a capital stock paid in of £6000; and £24,000 secured by bonds of the stockholders, with sureties. Total capital, £30,000. Risks, for the year ending 31st December, 1847, £448,992. Premiums received for ditto, £15,335. Losses paid

during ditto, £18,868.

There is a chamber of commerce at St. John's, composed of the principal merchants and ship-owners of the city. The chamber communicates with the government on subjects connected with the commerce and gene-

ral improvement of the country.

Commerce.—The trade of New Brunswick has largely increased; in 1831, the imports into St. John's were valued at £577,777 currency; 1835, at £1,040,000; in 1839 at £1,433,474. In 1842, the value of the imports from Great Britain was £217,000; in 1843, £337,000; in 1844, £454,000; in 1845, £617,000; in 1846 (at St. John's and St. Andrew's only), £533,512; $\ln 1847$, £583,355; The last three years ın 1848, £ have been periods of depression, owing to the state of the timber trade. In the imports from Great Britain for 1847, at the port of St. John alone, there were 7,265 packages of cottons, woollens, silks, and linen manufactures, haberdashery, &c., valued at £276,548; iron, wrought, 2,678 tons, value £30.602; iron, unwrought, 2.477 tons, value 27,975; hardware, 11,799 cwts., value £38,979; sailcloth, 455,366 yards, value £26,145; cordage and twine, 17,024 cwts., value £37,483; copper, wrought, 2,163 cwts., value £10,935. These items indicate the valuable trade in manufactures which England carries on with the colonies.

The exports from New Brunswick have also increased; they consist principally of timber and fish. In 1847, the quantity of timber exported from St. John's and St. Andrew's was, 152,653 tons, valued at

£188,446; deals, 28,270,084 feet; staves, 225,905 pairs; shingles, 4,131,583; railway sleepers, 483,570; laths, sawn, 4,245,706; masts and spars, 1,584; and various other descriptions of timber. The following are the exports of wood from St. John in 1839 and 1845. In the returns from the outports, the quantity shipped is not specified:—

Description of Timber.	Quantity, 1839	Value, 1839	Value, 1845
Squared timber, tons .	255,647		£275,451
Boards, feet	6,222	16,641	26,342
Deals, do	75,969	189,252	319,650
Staves, thousand	1,858	8,318	4,536
Shingles, ditto	4,504	3,346	6,278
Handspikes, number .	2,474	117	
Oars, ditto	6,715	556	158
Lathwood, cords	4,095	4,232	4,342
Sawed Laths, thous	1295	'	
Masts and Spars, No.	3,864	2,407	1,951
Ship-knees, ditto	538	109	
Total		£502,976	£638,708

Of fish the exports from St. John in 1847 were—dried, 13,022 quintals; salted, 18,861 barrels; smoked, 11,020 boxes; oil, 3,057 gallons.

In 1847, the shipping entering the port of St John's was, 2,308 vessels, 347,308 tons; at St. Andrews, 898 vessels, 81,031 tons. The number and tonnage of vessels registered in New Brunswick, in 1844, was—

Ports	Unde	r 50 tons	Ove	r 50 tons
SAILING VESSELS — Miramichi St. Andrew's . St John's	No 54 137 168	Tonnage. 1,330 2,624 4,978	No 27 56 221	Tonnage 8,813 15,767 57,762
St Andrew's . St John's	1	21 37	3	915 201

The navigation on the river St John will probably be much extended, for by the 3rd article of the treaty between Great Britain and the United States, signed 9th August, 1842, the navigation of the river was opened to the citizens of the United States in the following terms:—

"Article III.—In order to promote the interests and encourage the industry of all the inhabitants of the countries watered by the river St. John and its tributaries, whether living within the province of New Brunswick, or the state of Maine, it is agreed, that where by the provisions of the present treaty, the river St. John is declared to be the line of boundary, the navigation of the said river shall be free and open to both parties, and shall in no way be obstructed by either; that all the produce of the forest, in logs, lumber, timber, boards, staves, or shingles, or of agriculture, not being munifactured, grown on any of those parts of the state of Maine

watered by the river St. John or by its tributaries, of which fact reasonable evidence shall, if required, be produced, shall have free access into and through the said river and its said tributaries, having their source within the state of Maine, to and from the sea-port at the mouth of the said river St. John's, and to and round the falls of the said river, either by boats, rafts, or other conveyance; that when within the province of New Brunswick, the said produce shall be dealt with as if it were the produce of the said province; that in like manner the inhabitants of the territory of the upper St. John, determined by this treaty to belong to her Britannic majesty, shall have free access to and through the river for their produce, in those parts where the said river runs whoily through the state of Maine —provided always that this agreement shall give no right to either party to interfere with any regulations not inconsistent with the terms of this treaty, which the governments, respectively, of New Brunswick or of Maine may make respecting the navigation of the said river, where both banks thereof shall belong to the same party"

The shipping built in New Brunswick in 1848 was—at St John's, 62 vessels, 17,061 Brunswick Mill Compantons; at Miramichi, 14 vessels, 2,655 tons; £28,750, for the erectiat St. Andrews, 10 vessels, 30,777 tons; which, when in operation total, 86 vessels, tonnage, 22,793. In 1847, cut from 100,000,000 to there were registered at St. John's 83 new vessels, 38,112 tons; for owners in the United Kingdom, 1 vessels, 1,636 tons; registered at de Femme, Tobique, Miramichi, 3 vessels, 1,636 tons; ditto for Falls,* Acadian Companowers in the United Kingdom, 12 vessels, other establishments, are 6,563 tons; total, 99 vessels, 46,924 tons.

At St. Andrew's the new vessels registered in 1847 were 16, 6,448 tons.

Staple Products. - Timber has hitherto furnished the largest available product of the province. For more than a quarter of a century about 150,000 tons of timber have been annually exported. Since the formation of the colony the quantity of timber cut down has probably not been less than five million tons. According to the replies made in 1834 to some queries by Mr. Smith O'Brien, M.P., and the "Limerick Emigrants' Friends Society," it was stated, that in 1833 there were in the province 229 saw mills, valued at £230,000; on the 1st of January, 1836, the number was 320, valued at £420,000, cutting upwards of 170,000,000 feet of lumber; and early in the year, contracts were entered into by the New Brunswick Mill Company, to the extent of £28,750, for the erection of other mills, which, when in operation, are estimated to cut from 100,000,000 to 150,000,000 feet of lumber, &c., in addition to the above. And the Aristook upper and lower mills, Rapid de Femme, Tobique, Lancaster, Falls,* Acadian Company, and numerous other establishments, are in active prepara-

Relative Value of Saw-Mill Property and Produce, in the different Counties, in 1834.

Counties.	Number of Mills	Value of Mills, Privileges, &c	Quantity of Lumber sawed	Value of Lum- ber at place of shipment	Number of Men employed
		£	Feet	£	
Saint John	35	67,530	40,450,000	76,125	525
King's	46	21,559	6,605,000	16,512	470
Westmoreland	66	23,162	11,225,000	28,046	412
Kent	29	38,450	8,600,000	21,500	196
Northumberland	. 17	58,900	24,300,000	60,750	3873
Gloucester	10	19,377	3,650,000	9,250	162
Charlotte	55	80,625	48,687,500	124.343	1696
Queen's	12	35,000	4,230,000	10,575	255
Sunbury	11	22,950	9,700,000	24,250	247
York and Carleton	32	43,150	12,800,000	32,000	320
Grand Totals	314	£410,703	170,247,500	£403,353	8156

574

640

Value, £420,000 .

740,000 .

900,000 .

The timber trade has greatly encouraged emigration; the lumberer not only explores and opens the country as a pioneer for others, he also by he had by the country as a pioneer for the countr

In 1836 . . . Number of saw-mills, 320

" 1840 . .

" 1845 .

he also, by his laborious pursuit, obtains for himself the means to settle on lands that he has helped to clear. Dr. Gesner thus de-

The timber trade has greatly encouraged scribes the mode in which this business is augration; the lumberer not only explores conducted:—

Men employed, 4,200

7,400

8,400

"The felling and hewing of the timber for the British market are generally performed by parties of men hired by the timber-merchant or dealer for the purpose. In the autumn they are despatched into

the same quantity of lumber annually (1837). The Leprean makes are also in operation, which cut 2,000,000 annually, (1837).

The Lancaster Mill Company, with 32 saws now in operation, will cut per annum 3,000,000 feet of lumber (1837). The Grand Falls are also in operation with the same number of saws, and will cut about

the woods, with a supply of provisions, axes, horses, or oxen, and everything requisite for the enterprise. Their stores are conveyed up the larger streams, in tow-boats drawn by horses, or in canoes paddled by men; and in winter they are transported over the ice. Hay for their teams is procured from the nearest settlements, and is frequently purchased at £6 per ton. The site for operations having been selected by the leader of the party, a camp is erected, and covered with the bark of trees. The floor of the shanty is made of small poles, and a sort of platform is raised for the general bed, which is composed of evergreen boughs or straw. The fire-place is opposite the sleeping-floor; and that part of the smoke that escapes, ascends through a hole in the roof. In this rude dwelling the food is cooked, and the lumbermen rest at night A hovel is also built for the oxen, and the hay secured against rain. The party is usually divided into three gangs; one cuts down the trees, another hews them, and the third draws the tumber to the nearest stream. They begin their work at daylight in the morning, and seldom return to the camp until evening, when they find their supper prepared. During the night, the fire is replenished with wood by the cook and teamster; and it is a common remark among them, that while the head is freezing, the feet I have passed several nights with these are burning people in the backwoods, and always found them re-markably kind and hospitable. They are ever cheerful and contented, and a more hardy, laborious, and active class of men cannot be found in any part of the world. Formerly, a certain quantity of rum was supplied to each individual; but since the introduction of Temperance Societies, the practice is less common

"The avocation of the lumberman is not altogether free from danger. Many lives have been lost by the falling of trees, and the business of forking tumber is

sometimes very hazardous

"In the mountainous districts, it is necessary that the timber should be conducted over the steep precipies and high banks along the borders of the rivers. Having been collected on the tops of the cliffs, the square blocks are launched endwise, over rollers, either into the water below, or on the ice, which is frequently broken by the concussion. In its descent, the passage of the timber is occasionally arrested by trees or brushwood the lumberman then descends, and, holding on to the brushes of doubtful foothold, he cuts away the impediments. This mode of launching timber is called 'forking,'—from which may have originated the substitution of the phrase 'forking over,' for the payment of a debt, as expressed by some of the inhabitants.

"By the latter part of April, the melting ice and snow, with heavy rains, swell the streams and produce freshets. The lumbermen commence 'stream-driving.' The timber on the rivulets is now floated downwards to the deep rivers; each log is launched, and, when stranded, it is again rolled into the current—and their manner of urging the enormous pieces of pine over the rapids is alike creditable to their courage and patience. Still pushing the rafts of timber downwards, and moving with the current that daily transports the bark that covers their movable camps—stung by swarms of insects both day and night, these men possess more patience under their hardships and sufferings than those of any other class in the country. Half-a-dozen of them will frequently navigate the stream astride a log of timber, which they paddle along with their legs in the awater; and they will force the light skiff or cance up a perpen-

dicular fall of three feet, where the roaring of the water is truly deafening, and where there is constant danger of being plunged into some whirlpool, or dashed against the rocks. Although they are frequently rendered giddy by the revolving motion of the eddies, they fix the poles upon the bottom, and move away against the foaming torrent, or cross the stream on slippery blocks of pine. Such is the force of habit, that these men view the forest as their home, and the river as their turnpike; constantly exposed to the inclemency of the weather and the water of the rivers, they appear contented, and seem to regret when the labour of the season is ended situations where the water is more tranquil, a singular spectacle is sometimes presented: each of the drivers mounts a log or piece of timber, and, with their pikes in hand, the party move along like a floating regiment, until some fall or rapid warns them to re-embark. Not unfrequently, a rapid is blocked up with timber in such quantities, that it refuses to pass. This is called a 'jam' The clearing away of these jams is the most dangerous part of the stream-drivers' employment, and who are sometimes thrown down a fall or rapid into the boiling pool beneath

"The quantity of timber in one of these drives in enormous its progress along the river where there are rocks is therefore slow, especially when the summer is advanced, and the volume of the water consequently diminished. In order to deepen the water, 'wing dams' are sometimes constructed on the sides of the most troublesome rapids. The depth and velocity being thus increased, the floating timber passes along more readily, but these dams greatly impede the passage of canoes in ascending the streams. Like the employment of the sailor, the work of the lumberman is peculiar he requires much practice and experience, and it may be safely asserted, that should any unfavourable change take place in the home timber trade, thousands of men will be thrown out of employment, who have as little disposition to engage in agriculture as those who have been employed as

sailors or fishermen.

"The timber and logs having been collected, are formed into large flat rafts, and floated down to their place of shipment, or to saw-mills, where the logs are manufactured into deals, boards, planks, &c lumber-men then receive their pay, which they too often spend in extravagant festivity, until the period arrives when they again depart for the wilderness. yet there are many who take care of their money, purchase land, and finally make good settlers. Timber is collected by farmers, new settlers, and squatters, who also procure great numbers of logs for the sawmills, but the greatest supplies are brought down by the lumbermen from the interior forests. Mills for the manufacture of timber have greatly multiplied within a few past years. The removal of the exterior parts of the logs, by saws, is favourable to the preservation of the wood, and by it a great saving is effected in the freight. The saws, however, are chiefly applied to spruce, while the pine is shipped in squared

Mr. Perley, in his evidence before the House of Lords, 11th June, 1847, related the following case, as an illustration of the manner in which a woodman may become a farmer:—

"I sent a young man to a first-rate farmer in the country, who wrote to me for an active young man.

The emigrant, an Irishman from the county of Cork, the son of a small farmer in that county. He brought me a letter of introduction, stating that he was of a decent family. I sent him up to a first-rate farmer, who gave him 30s. currency per month, with which he was not well satisfied; that is equal to 25s. sterling He had his maintenance and washing and lodging in the farmer's house. He proved himself so active and useful, that in the second month his wages were advanced. Before the close of the season, and the setting in of winter, he had learned the use of the axe very well, and was engaged by a lumbering party in the woods at £5 per month. They found him everything in the woods, except clothing. He proved himself so good an axeman, that at the end of the year, when the men came down with the timber, and he was paid off, he brought to me a sum of £30 currency, and wanted to know what he should I advised him to buy 100 do with his earnings acres of land, which cost him £12 currency, to put the other £18 in the Savings Bank, and hire out another year, and by that time he would be in a position to establish himself comfortably as a farmer"

Ship-building is largely carried on in New Brunswick. In 1782, the total tonnage of St. John's was 250 tons; in 1795, 4,000 tons; in 1824, 16,000 tons; in 1836, 59,663 tons; in 1839, 80,830 tons. At Miramichi and St. Andrew's, vessels are also built. 1839, there were 26 vessels, of 9,827 tons, built at Miramichi. Vessels were formerly built by contract, at £5 to £7 per ton, and so imperfectly put together, that the New Brunswick ships obtained a bad name. Since 1840, strenuous and successful efforts shipping, and now the New Brunswick ships are said to equal Thames-built vessels.

and gypsum, in various parts of the pro- year 1847:-

vince; but the operations are of very limited extent. No authentic information has been collected on the subject.

The number and tonnage of vessels built in the province in 1840, were:-

Ports									No	Tons.
At St John's . Miramichi . St. Andrew's					•				62	17,061
Miramichi .	•	٠	•	٠	•	•	•	٠	14	2,655
Dr. Whaten 8	•	•	•	•	•	•	•	٠	10	3,077
Total n	um	be	r aı	br	ton	naį	ge		86	32,793

In 1848, the number of saw and grist mills in the several counties of New Bruns-

In Charlotte County -16 grist and 103 saw-mills; (in this county there is a small extent of railroad made.)

St. John's —9 grist and 4 saw-mills; 3 iron-foundries, 1 brass foundry; 3 nail manufactories; 6 brick manufactories; and 1 pottery. Westmoreland .- 53 grist and 181 saw-mills.

King's —43 grist and 68 saw-mills. Queen's.—19 grist and 28 saw-mills. Sunbury -6 grist and 15 saw-mills. York —22 grist and 31 saw-mills. Carleton —27 grist and 23 saw-mills.

Northumberland .- 18 grist and 33 saw-mills; 1 iron foundry.

Gloucester -18 grist and 7 saw-mills. Ristigouche.- 3 grist mills. Kent -13 grist and 31 saw-mills.

Agricultural Produce.—As the forest-land have been made to improve the class of becomes cleared, and population augments. the agricultural resources of New Brunswick will be more fully developed. The following There are mines and quarries of lime- tables show the crops, stock, and land cultistone, freestone, grindstone, granite, coal, vated and granted in each county for the

Crops produced in the Province of New Brunswick, for the Year ending December 31, 1847.

Crops produced			,		,,,				-,	
Name of the County	Wheat	Rye	Oats	Barley	Buck- wheat	Other Grain	Potatoes	Turnips	Other Roots	Hay
	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Tons
York	14,300	147	103,540	2,192	17,645	1,837	259,248	8,644	873	17,025
Carleton	4,970	2,640	197,000	,,	116,200	8,940	271,000	23,400	1,457	16,420
Saint John	563		9,448	572	3,234	1,052	91,924	8,124	1,296	8,498
King's	13,770		96,882	1.628	96,543	423	145,208	13,578	1,857	30,672
Queen's	10,431	2,395	72,134	3∠6	36,576	596	123,431	5,373	1,089	25,434
Sunbury	4,739		37,513		9,541	749	79,135	2,210	847	8,967
Westmoreland & Albert						12,800	252,400			34,340
Northumberland	41.562			4,366	1,092	994	274,697	13,220	864	8,368
Kent	17,241			3,742	3,063	1,427	197,437	1,373	287	8,651
Ristigouche	7,486			,,	342			1,843	573	3,524
Gloucester	21,264		38,931		,,	1,448	212,372			5,684
Charlotte	9,420		67,460							16,880
Totals	189,996	12,802	952,225	30,412	325,316	32,402	1,988,865	133,225	16,121	184,463

The prices of agricultural produce in 1848 were—wheat, 6s, 9d.; rye, 4s.; oats, 2s.; barley, 3s. 9d.; buck-wheat, 2s. 8d.: pota4d.; turnips, 1s. 6d.; maize, 4s. per Hay, 40s. per ton.

Stock and Land, cultivated and uncultivated, in the Province of New Brunswick, Year ending Dec. 31, 1847

Name of the County.	Horses.	Horned Cattle.	Sheep.	Swine	Pasture	Cropped and in Hay	Granted Land	Ungranted Land
York	2,347 2,980 1,437 3,116 1,645 875 6,212 2,517 1,450 1,783	9,342 11,230 5,165 19,539 10,326 4,620 26,540 11,843 4,796 2,150	19,832 18,430 4,708 27,794 14,922 7,840 36,400 15,134 9,439 3,317	4,324 6,840 2,786 6,978 3,451 1,862 7,415 5,605 3,460 1,480	Acres 23,431 28,460 16,542 43,842 28,446 6,167 47,500 8,368 5,827 3,652	Acres 29,437 31,350 18,146 51,603 33,473 14,210 58,800 40,248 19,240 5,741	Acres 940,914 811,402 309,147 662,752 514,204 377.078 811,140 986,168 386,398 156,979	Acres. 1,230,686 4,480,598 105,573 187,168 477,076 405,002 509,680 1,993,832 640,002 1,109,581
Gloucester Charlotte	956 1,325	4,912 9,650	8,124 14,142	3,584 3,384	6,340 15,584	8,230 20,412	332,902 317,245	704,538 466,115
Totals	26,643	120,113	180,082	51,169	238,159	330,890	6.606.329	12,309,851

In 1825, major-general Sir Howard Douglas, then governor of New Brunswick, gave a stimulus to the agriculture of the province; assembled the members of the legislature, and other gentlemen, at Fredericton, addressed them in an eloquent speech, and strongly urged extended and careful cultivation of the soil. Agricultural societies were formed, improved breeds of cattle ordered from Great Britain, model ploughs and other rural implements introduced, and a beneficial and lasting impulse was given to husbandry.

The wheat of New Brunswick is of the very best quality: it is much heavier than the American (United States) wheat; weighs 65 pounds to the bushel, or even more. The produce is 15 to 30 bushels an acre Indian corn is not a certain crop. It requires a light, warm soil, and plenty of manure. The old American rule is to drop 6 grains of corn into each hole.—

One for the cut-worm, One for the crow, One for the grub, And three for to grow.

Oats is a safe crop: the produce is 20 to 40 bushels an acre. In 1844, the potato blight reached New Brunswick from the United States, gradually found its way over the boundary line, and proceeded from W. to E. In 1845, the potatoes suffered as much as in Ireland; but in 1846 the disease disappeared to a great extent, and there was nearly an average crop, of good quality. The produce, on old lands, is from 150 to 400 bushels per acre: 800 bushels may be raised on one acre. Clover is a good crop. White clover is indigenous. Turnip cultivation has been introduced of late sears, with great success, for feeding cattle in winter.

The two following cases were submitted in evidence to the House of Lords, 11th June, 1847, in proof of the capability of New Brunswick to receive agricultural settlers. The witness advocated the making of roads, in the first instance, into the wilderness, as a means of opening the country, and of giving temporary employment to the newly-arrived emigrant. He was asked by their lordships.—

"Can you give any account of particular settle ments formed in the neighbourhood of those roads? -Two very striking instances of the success attending the formation of new settlements in the wilderness by associations of settlers, having the privilege of making their own roads at a reasonable rate, exist in York County The Harvey settlement was formed in the forest, on the line of road between Fredericton and St Andrew's, in 1837, by a party of emigrants, (45 heads of families), from the north of England, who landed in New Brunswick in a very destitute condition A report upon this settlement was presented to his excellency the lieutenant-gover-nor by the Honourable L. A Wilmot, the commissioner who formed it, on the 9th February, 1844, accompanied by a statistical return. This report states, that it is shown by the return, that from land where not a tree was felled in July, 1837, there had been taken, during the preceding autumn, 260 tons of hay and straw, and 15,000 bushels of grain, potatoes, and turnips, and that the great success which had attended the labours of these industrious and valuable settlers, afforded an unquestionable proof of what might be done on the millions of wilderness land in New Brunswick. The return shows the number of settlers to be 44, and the value of the improvements to be £4,289 10s The settlers accompanied the original return with the following observations, written by one of the parties himself :-- 'The climate of New Brunswick agrees well with the constitution of Englishmen; the air is salubrious, and the water as pure and wholesome as any in the world During the six years of our location but two deaths have occurred, while there have been thirtynine births without the presence of medical aid. Six years' experience has convinced us, that, notwithstanding the privations to which new settlers are

exposed, diligence and perseverance must ensure This English settlement is rather compact along both sides of the road. The lots were laid out with the usual frontage granted in New Brunswick of 40 rods, with sufficient depth to the rear to give them each 200 acres of land. The settlers were conducted into the wilderness by the blazed line, and they commenced making the road. The price paid them by the province for making and gravelling the road enabled them to purchase provisions, and to maintain themselves and their families, until the time when they had some land cleared, and had secured a crop. They cleared the land themselves The men who formed the Harvey settlement were the contractors themselves; each man got a certain number of rods to make. They all became purchasers of land. Each person cultivated his own plot. All work upon their own land. Each of them earned enough to pay for a plot of land, and to settle upon it. The price at which they obtained the land was 2s. 6d. sterling an acre; one-fourth paid down, and the rest in one, two, and three years, without in-terest. They had it at the minimum rate. A man put down upon a piece of wilderness with 200 acres of land, should live upon it the second season, after securing a crop, assuming that, in the first season, he begins too late to put in a crop. The better course is to hire themselves out the first season, and at the close of the year, if they do not get employment for the winter, they have some months to work on their own land. During the winter they chop a piece down, erect a log-house, and get upon the land in the spring. If a man is industrious, and successful in getting his land cleared in the spring, and getting in his crop, he may secure enough that season to maintain himself and his family for the succeeding year. Having done that, he is safe

"You have given an example of the progress of the Harvey settlement, which was an English settlement. Can you give the committee a similar example with respect to any Irish settlement?—I can mention the 'Teetotal Settlement,' which was an Irish settlement, formed by people from Cork and Kerry. It was formed in 1842, under the same commissioner, by a party of destitute emigrants from the south of Ireland. In a report from the commissioner, dated 25th January, 1844, it is thus stated:—'The results of the second effort in which I have been engaged in forming settlements in the wilderness, have afforded me the most unmingled satisfaction. Where but two years ago stood a dense forest there have been gathered, by thirty-five settlers during the past autumn, 7,236 bushels of grain, potatoes, and turnips. The accompanying return shows an estimated value of £1,137 in buildings and clearings; and when there is added to this the market value of the crop, exceeding £800, we have about £2,000 return (exclusive of the making four and-a-quarter miles of road) from a tract of land which, in its wilderness state, would not in the same time have produced a shilling. I cannot now consider the successful occu-pation of our wild lands by associated bodies of settlers, having the privilege of making their own roads at a reasonable rate, as a doubtful experiment. No antagonist theory can prevail against the practical experience which can now be referred to. Similar management must produce similar results; and I am well persuaded that no other system is so well calculated to promote the improvement of our millions of wilderness acres, and thus to advance the population

and commerce of the province.'

Notwithstanding the defective state of agriculture in the province, the following crops, per acre, have been produced in different parts of New Brunswick:—

Wheat, 40 bushels, some weighing 68 lbs. per bushel; barley, 40; oats, 60; Indian corn, 75; buck wheat, 75; peas, 40; turnips, 1,000; potatoes, 800 bushels; carrots, 30 tons; mangel wurtzel, 30 tons.

In the report of the York (New Brunswick) Agricultural Society, in 1841, it was stated that the following produce was raised on seven and-a-half acres of land, including a garden:—

"Ten tons hay; 76 bushels cats; 280 bushels potatoes; 3 tons straw; 35 bushels carrots; 20 bushels turnips; 15 bushels beets and parsnips, besides an abundant crop of other garden produce. And from the time that clover was fit to cut for soiling, four cows were liberally fed every night during the season, and two horses occasionally in every week."

A settler at Stanley, on the New Brunswick Company's land, in 1845, thus details the agricultural result of his first year's farming:—

"It may be said that we have longer winters, and less productive soil than in the west, but against this we have healthy climate, and a better market, the summer not so oppressive, nor the winter more severe. Of the soil and its produce, you may judge from the following statement of 20 acres, of which I have taken account, showing the produce, the cost of the land, and preparing it—

tuna, una propuring 10				
Produce	£	8	£	
Oats on 17 acres, 850 bushels at 2s 6d .	106	5		
Wheat on 3 acres, 72 bushels at 8s .	28	16		
Straw	25	0		
			160	1
20 acres of land, at 6s	6	0		
Clearing ditto ready for crop, 78s. per acre	78	0		
Oats for seed, 50 bushels to 17 acres, at 4s	10	0		
Wheat ditto, 5 bushels to 3 acres, at 10s		10		
Harrowing and sowing at 7s 6d per acre		10		
Harvesting at 15s. per acre	16	0		
			120	C

"The item for clearing the land in the above, for the first year, takes much from the show of profit but is a sum that would not afterwards appear."

Profit

Another settler states the produce of 25 acres of land:—

"I have at present 100 acres of land, and about 25 cleared, and all pad; cost me £30 currency, equal to £25 English mouey. I had five years to pay it. I raised off it last summer 300 bushels of potatoes, 100 bushels of turnips, 100 bushels of oats, beside some wheat and buckwheat, and a great quantity of garden vegetables, and two barrels of pork, which, thank God, I can use in my own family, and not be compelled to sell it to pay the rent, tithes, or taxes; so that I am quite comfortable, but very uneasy about my friends at home."

Mr. M'Gregor, M.P., late secretary to the Board of Trade, recorded the following instance of successful agricultural industry in New Brunswick, which came under his observation:—

"On coming down the south-west branch of the river Mıramichi, in the autumn of 1828, where the road from Frederictown and the river St. John 10in Miramichi, I was astonished," he says, " at the unexpected progress made during so short a period (about four years) in the cultivation of the soil. An American told me that when he planted himself there, seven years before, he was not worth a shilling. He has now (1829) more than 300 acres under cultivation, an immense flock of sheep, horses, several yokes of oxen, milch cows, swine, and poultry, a large dwellinghouse, a numerous train of labourers, one or two other houses, a forge with a powerful trip-hammer worked by water-power, fulling mill, grist mill, and two saw mills, all turned by water. Near these he had erected a building for the double purpose of a school and chapel, and which he said was open to all per-suasions. He raised large crops, ground his own corn, manufactured the flax he cultivated, and the wool of his sheep into coarse cloths, and sold the provisions which his tarm produced. In his barn was a heap containing about 90 bushels of Indian corn, that grew on a spot scarcely an acre, which he pointed out to me He talked much in praise of the rich interior country.

This individual (Mr Boies) had (1834) probably the best cultivated and as well a stocked farm as there was in the province. He

raised in some seasons, about 1,000 bushels of wheat; a large quantity of oats, Indian corn, peas and beans, turnips, &c.; cuts 200 tons of hay; keeps 30 or 40 oxen, all reared on his farm, employed in the forest hauling out timber; has an extensive dairy; a piggery in which the hogs are reared, fattened, and cured, agreeable to the most approved and economical methods; and every other concomitant to an extensive farm; also a mill for the manufacture, separately, of flour, oatmeal, barleymeal, Indian corn, meal, and flour; a carding mill, &c.

There is an abundance of land in the province available for settlers. The following statement shows the quantity granted and ungranted in each county, and also the Indian lands. It will be perceived that out of 11,715,291 acres of land fit for cultivation not much more than half a million (586,979) acres have yet been cleared. The formation of the St. Andrews and Quebec railway, and branch lines, will tend materially to the opening of the country. A tax on wild lands held unproductively would have a good effect:

Granted and Ungranted Lands of New Brunswick.

	C. M. C.								
_	Cleared	Wildernes	s Land	Granted and located	Ungranted	Total	Observa-		
County	land, in Acres	Fit for Agriculture			Land	Contents.	tion		
Ristigouche Gloucester Northumberland Kent Westmoreland Albert Saint John Charlotte King's Queen's Sunbury York Carleton	11,439 17,575 35,764 28,218 93,030 32,110 27,134 49,135 92,452 67,089 17,262 59,818 65,953	941,341 764,899 2,208,177 748,637 589,058 301,088 290,690 550,669 568,101 678,144 573,614 1,606,337 1,894,536	313,780 254,966 736,059 249,545 196,352 96,896 183,556 226,047 191,204 535,445 631,511	156,979 332,902 986,168 386,398 577,440 233,700 309,147 317,245 662,752 514,204 377,078 970,914 530,802	1,109,581 704,538 1,993,832 640,002 301,000 199,860 105,573 466,115 187,168 447,076 405,002 1,230,686 2,061,198	1,286,560 1,037,440 2,980,000 1,026,400 878,440 433,560 414,720 783,360 849,920 961,280 782,080 2,201,600 2,592,000	Exclusive of that portion of cot also claimed by Canada, and taining 2,700,000 acresadditi		
Grand Totals .	586,979	11,715,291	3,905,090	6,355,729	9,851,631	16,207,360	country and con- ditional		

Reserved Lands in New Brunswick for the Indians in 1842.

Reserves.	Acres	Total Acres	Indians	Total Indians	Reserves.	Acres	Total Acres	Indians	Total Indians
In NORTHUMBERLAND On Lattle SW branch of Miramichi river	10,000		[43]		RISTIGOUCHE— On Eel river WESTMORELAND—		400		12
On Little N W. branch	12,750	33,425	158	401	On Aboushagan river Memramcook river	••	250 60	1 ::	138
At Burnt Church	1,640 9,035		200		SAINT JOHN— On Kennebeckasis river		15		105
On Richibucto river	4,600}	8,100	{188}	281	York— At Indian Village—		200		158
GLOUCESTER— On Pokemouche river Nepisiquit river	2,600 \ 1,000 \	3,600	\ \ 93 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	102	CARLETON— At Meductic river , Tobique river , Madawaska river	16,00 700}	200 16,700	29 123 26	179

Total Acres in the Province, 62,950 Total Indians, ditto, 1,376

auction, under the Civil List Act, at 3s. quantity of land sold during the year 1848. currency per acre, as the minimum upset amounted to 26,7611 acres, of which 14.777 price. A party desiring a lot of land, ap- acres have been paid for in full, and upon plies by petition for the lot that he is which £1789 19s. 3d. have been received; order is sent to him for a survey, of which under the instalment system, and upon which he bears the expense. On the return of the £473 3s. 4d. have been received. survey, it is advertised one month to be sold at once advertised to be sold at the monthly In the one case, the party advances the expense of the survey; and in the other, an established price of 3d. per acre is added to the minimum price of land. The party attends at the sale, and if he purchases, and pays down the money, he obtains a discount of 20 per cent. for prompt payment. If he does not pay for the land, he pays onefourth, and enters into a bond to the crown for the remaining three-fourths, payable in one, two, and three years, without interest, and receives a location ticket. The money is transmitted by the local deputy to the receiver-general of the province, and eventually finds its way into the general revenues of the country.

Many settlers who arrived a few years ago in New Brunswick, without a shilling, are now the owners of fine freeholds, surrounded with abundance, in a healthy climate, and under the protection of laws of their own

The area of New Brunswick is estimated, in round numbers, at nearly 17,000,000 acres; of these, 5,000,000 are said to be granted; 2,000,000 are deducted for water and waste; and the remaining 10,000,000, fit for settlement and cultivation, are in a state of wilderness, ungranted, and at the

disposal of government.

According to the New Brunswick Blue Book for 1848, the land granted and sold in New Brunswick, in 1848, under 100 acres, was, 6,639 in 117 grants; above 100, and not exceeding 500 acres, 92,737 in 282 grants; exceeding 500 acres, 15,015. Total number of acres granted and sold during the year, 114,391, of which 46,228 acres were purchased, and 68,163 granted. The average price, per acre, was 2s. 9d.

The number of acres granted in the colony up to 1848, has been 3,915,498; and the number sold, 1,720,296. There remain still to be granted, 13,511,154 acres of land.

From a recent Report of the surveyor-

Land is now sold in New Brunswick by state of crown lands, it appears that the whole desirous of obtaining. If unsurveyed, an leaving 11,984; acres, which have been sold

The timber licences for the past year in the county where the land hes. If sur- cover, it is stated, an area of 2,157 square veyed, upon an application being made it is miles, at an average rate of 16s. 8½d. per mile, producing £1,992 8s. The highest rate paid for any one lot was £20 1s. per square mile, being a licence for 9 square miles, situate on the left bank of the river St. Croix, about 25 miles above St. Stephen. The quantity of land under licence in 1847 was 5,360 square miles, which produced the sum of £3,585 7s. 9d., the highest price paid per square mile being £5, the whole quantity averaging only 10s. 5% d. per square mıle.

The immigration into New Brunswick, during the year 1848, amounted to only 4,020 persons, being a decrease, as compared with 1847, of 11,249, and as compared with 1846, of 5,745 persons.

The Blue Book for 1840, contains the fol-

lowing :-

Prices of Provisions.—Wheaten flour, per barrel of 196lbs., £1 9s. 3d; wheat, per imperial bushel, 5s. 5d.; wheaten bread, per lb., 2d; horned cattle, £7 10s.; horses, each, £25; sheep, per score, £13 10s.; swine, each, £2 10s.; milk, per quart, $3\frac{1}{2}d$; butter, 9d.; cheese, 7d.; beef, 3d., mutton, or pork, 4d.; rice, 3d; coffee, $10\frac{1}{2}d$.; tea, 3s. 7d.; sugar, per lb., 8d.; salt, per bushel, 1s 4d; wine, 10s.; brandy, 9s.; beer, per gallon, 1s. $9\frac{1}{2}d$.; tobacco, per lb , 1s. 6d.

Wages for Labour.—Domestic, 30s. to 60s; predial, 30s. to 45s., with board and lodging, per month; trades, 4s. 6d. to 8s.

per day.

Fisheries.—New Brunswick possesses a coast line of 500 miles in extent, admirably adapted by its deep bays, coves, and inlets, for piscatory pursuits.

The colonists complain that they are not protected from the depredations of the Americans, who, contrary to treaty, and to national rights, fish within three miles of the land, and carry off their prey, despite of cruisers or coast guard. Dr. Gesner says, the fisheries of New Brunswick, if duly protected, and pursued with energy, would general of New Brunswick upon the present form one of the principal sources of her

wealth and prosperity. The coasts, indented fish are washed away, and which, with the Americans have annually reduced the numbest temporal gifts of Providence. the fishermen lack the stimulus of the bounties given to the Americans, with whom or "haul," as it is frequently called. they are unable to maintain a competition.

The whole number of fishing vessels belonging to the ports and harbours of the Bay of Fundy side of the province, in 1840, was only 65. Their burthens were from 10 to 30 tons each. The present number, including 20 belonging to Grand Manan, will not exceed 70, exclusive of shore-fishing-That island alone, with a proper population, could employ advantageously 100, and the whole coast 600. The number of fishing vessels belonging to the United States, and fishing in the same waters, is as The fishermen of the province, with few exceptions, are far less persevering and industrious than the Americans, or even

the people of Nova Scotia.

the sea. When the tide recedes, the fish are his expenses, and supported his family. The enclosed in the ware, and left dry. tide than can be secured by the fishermen, plant a few potatoes, and fish in boats during In such instances, great quantities of dead the forest, shoot, or remain idle. Many

by numerous harbours, bays, and rivers, offal thrown into the water, are no doubt a afford every facility for shore and deep-sea- great injury to the fisheries; yet little atfishing; and although the practices of the tention is given to this abuse of one of the bers of the finny tribes, they are still suffi- hundred and even one thousand barrels of ciently numerous to render the employment, herring are sometimes taken in one of these under proper management, profitable. But, wares in a single night-tide. Dr. Gesner from causes already adverted to, the demand states, that he has never known an instance for timber and a scanty population, the on the shores of the Bay of Fundy, where fisheries are not pursued with energy, and the proprietors of one of these wooden cages were prepared to secure a large catch,

These "wares," erected in the commencement of the fishing season in almost all the bays, harbours, and creeks, are frequently leased to the Americans, who catch, cure, and smoke the fish upon the shores by the consent of the inhabitants, and in direct violation of the Treaty of 1783, and the Convention of 1818. In Passamaquoddy Bay, they fish for cod within a quarter of a mile from the British islands. The advantages of the people are thus sacrificed, often for small supplies of American goods, which are called for by their pressing necessities, the offspring of their idleness, and the relinquishment of their rights. That the fisheries are capable of supporting an extensive trade, and of affording ample remuneration The larger vessels fish for cod on the to individual exertion, is certain, from the The shore-fishing is carried on in success that always attends the labours of boats; but they are often very imperfectly those who pursue them with activity and supplied with fishing-tackle, and the catch is energy. In 1839 (which was an unfavourable limited. There is an annual decrease in the season for fishing), William Gubtail purnumber of codfish along the shores, while chased for his son a boat of 11 tons burthen, the haddock are quite as plentiful as they for which he paid £100. With this small were in former years—a circumstance arising vessel, the son, with four men whom he had from the fact that the "garbage" thrown hired, not only cleared the expenses and into the sea is more destructive to codfish purchase-money of the vessel, &c, but supthan to haddock. Halbut, hake, and other ported the whole of his father's family during kinds of fish, are taken by the batted codfish the whole of the winter. Between the hook; pollock are trailed for in swift wa-months of May and October of 1840, he Herring are taken in nets, but the made three trips to the deep-sea-fishing, and greatest quantities are caught in "wares." caught 250 quintals of codfish. Twice he These are circular enclosures of strong went to the herring fishing, and landed 170 stakes, driven into the beaches near low-barrels. He also made a third voyage for water mark, and interwoven with brush- herrings. Thus, in less than six months, he wood. At high-water they are covered by cleared double the value of his vessel, paid

Many of the inhabitants of the coast and enclosure is sometimes made with strong islands engage in the different employments nets. Sweeps are also made by large seines. of agriculture, fishing, and lumbering; but It frequently happens that a much larger as might be expected, they are unsuccessful quantity of herring are taken in a single in each of those branches of labour. They or perhaps more than their stock will cure. the summer. In winter they embark for unprofitable state of the fisheries has resulted from the violations of the convention

by the Indians during the summer for their of the coast. capture them.

The Mechanics' Whale-fishing Company, and C. C. Stewart, Esq., of St. John, are fisheries of New Brunswick in 1830 was ofengaged in the whale fishery of the Pacific Ocean. The exports of whale oil from the province average about 100,000 gallons, and of sperm oil 50,000 gallons per annum.

The fisheries on the N.E., or Gulf of St. Lawrence coast of New Brunswick are not in a more prosperous state than those of the Bay of Fundy, except at Caraquette, which exports from 8,000 to 10,000 quintals of dry fish annually. The encroachments and contraband trade of the American fishermen are even more daring in the Gulf than along the Atlantic coast.

Cod-fish are still abundant on many of the banks and shoals, and great facilities London, 1833.

who take large supplies of fish during their are offered for shore-fishing. Haddock, polseason, are compelled to purchase them from lock, and halibut are very numerous at certhe trader during the cold months at a tain seasons: with these there are immense high price. These observations will not, shoals of herring. Caplin are sometimes however, apply to the whole fishing popula- carted on the fields for manure. Salmon tion, of whom exceptions are to be made for frequent all the rivers; but since the ereca few individuals who live comfortably, and tion of saw-mills their numbers have dehave, by their industry, gained an honest creased. Gaspereau and smelts are taken in mdependence. The present degraded and the principal streams; and sea trout enter the lagoons.

Mackerel may be taken in the Gulf of St. by the American fishermen, who obtain Lawrence and Bay Chaleurs from May to bounties on fish taken and cured upon Bri- October, and large catches are made by the tish shores, and the indifference of the coast American fishermen. In summer the macksettlers, who remain contented with a pre- erel are lean, but in the autumn they are carious subsistence, the result of idleness, remarkably fat and of large size. Lobsters, rather than earn a comfortable competency. clams, and other shellfish are plentiful. As natural consequences, poverty, and some- Oysters are shipped from different parts of times absolute misery, is too often seen the shore to Quebec, Halifax, St. John, and among them, and the resources of both the other places. In the early settlement of the sea and the land are unproductive in their country, walruses were taken, and they are still occasionally seen. There are two varieties Mackerel may be taken in the Bay of of seals. Whales pursue the fish into the Fundy from the 1st of May to the middle of Gulf during the summer, but no attempts October. They are taken by hooks, or on are made to capture them. From the rapid jigs; nets are seldom employed. Mackerel increase of population, it would naturally fishing is not followed with much enter- result that the exports of fish would be prise, and is therefore seldom profitable. enlarged; yet, from causes already adverted The principal shad fisheries are those of the to, the fisheries advance but slowly, and St. John and Peticodiac. Salmon are taken unless they are protected by the governin the small bays and large rivers in nets, ment, they will be altogether in the hands or speared during the dark hours of the of the French and Americans. These inexnight. Shad and gaspereau are caught in haustible maritime resources are neglected, nets. A fish called menhaden, which re- and a general apathy prevails towards the sembles a small shad, although plentiful, is improvement of those blessings Providence not deemed profitable. Porposes are shot has so abundantly dispensed in the waters The foregoing remarks are oil. Lobsters and other shellfish are abun- almost entirely derived from the personal dant. Whales are seen upon the coast at observations of Dr. Gesner, who expresses all seasons, but no attempts are made to himself strongly against the "encroachments of the Americans."

The exportation of the produce of the

DITOTION OF THE					"	
Dried fish .			2	27,82	25 cro	ts.
Pickled fish .			2	21,14	7 bar	rrels.
				2,78	33 ke	gs.
Smoked fish.				4,9	52 bo	xes.
				5,35	50 nu	mber.
Fish oil .			:	12,30	02 ga	llons.*
		834.			•	Value.
Dry cod, 26,5	59 quin	tals			£	15,188
Wet cod, 693	barrels					583
Herrings, 3,6	53 boxe	s, 365	barre	ls		709
Mackerel, 3,0	14 barre	els				2 564
Salmon, 869 l	arrels					1,787
Other sorts						5,564
Train oil .						9,577
						-

. £35,972 Colonial System, by Henry Bliss, Esq., p. 58.

		18	35.				Value.
Fish, dried							£12,894
" pickle							21,269
" smok	edi						1,944
Oil, cod liv	er						849
,, seal							1,088
,, whale					•		10,988
	Total						£49.032*
	LOUM		839.	•		• •	Value
****	~~ ~~	_					
Fish dried,	23,59	4 qu	intale			- 3	£16,227
" pickle	ed {1	6,999 6,242	kits	ets			19,812
. smok	ed, 14	365	boxe	В			6,854
Oil, whale,							7,720
" sperm,							3,969
. cod,	12,82	7	22				1,727
Whalebone							1,323
							•
	Total	l					£57,632+
			1844.				
Pickled sal	mon						i419 kits.
Smoked	"				box		
Mackerel					l barr		
Dried fish			1	2,405	quin	ıtals.	
Alewives &	shade	s, salt	ed 1	6,346	barr	els.	
Codfish, pro	kled				barr		
Herring, sa	lted				barr		
	moked	Ĺ			box(
Seal oil				240	gall	ons.	
Cod oil .				5,77	ŧ,	,	

The above return does not include the Port of St. Andrew's and its outbays.

				•	
	1	1845			Value
Fish.	dried, 8,842 qui	ntals			£5,526
	salted 17,923 ba	rrels			13,444
**	smoked, 10,058	boxes			2,514
"	oil, 71 barrels				213
	Total .				£21,697

In 1847, the exports of fish from the port of St. John were, dried, 13,022 quintals, value £7,374; salted, 18,861 barrels, value £15,078; smoked, 11,020 boxes, value £1,136; oil, 3,507 gallons, value £318. From St. Andrew's, in the same year, the fish exported was valued at £5,379.

The legislature of the province have recently offered a small tonnage bounty on fishing-vessels; but the whole sum granted to the families of mankind, and to diffuse to the families of mankind, and to diffuse to the families of mankind, and to diffuse to the for that object was too small to have any ization and improvement, the progress of this fine province cannot fail to be accelevill be observed to be on the decline.

Property.—By a statement made in 1833, in New Brunswick, the value of property in the province was stated to be—city, seaport,

* Colonial tables, Murray, vol. ii. p 250.

and inland towns, villages, &c.; agricultural produce, implements, and live stock, £3,000,000. Marine and inland navigation, £575,000. Saw, grist, and fulling-mills, £425,000. Total, £4,000,000. This amount must now be largely moreased. There is a great spirit of public improvement in the province. A railroad is in progress of construction from St. Andrew's to Fredericton; to be continued, if the funds can be obtained, to Quebec; and New Brunswick may not only be considered one of the most eligible colonies of the British empire for the location of emigrants, but also one of the most thriving and loyal portions of the dominions of our gracious sovereign.

The recent Lieutenant-governor of New Brunswick, Sir W. M. G. Colebrooke, who has had considerable experience in the administration of colonial government, and received the high commendation of successive Secretaries of State for the Colonies, paid the following tribute to New Brunswick, in a despatch to Earl Grey, dated St. John's, New Brunswick, 8th April, 1848, when transmitting the annual report on the

Blue Book for the year:-

"At the close of an administration of seven years, it is due to this province to bear my testimony to the value of it, as one of the most important possessions of the crown. The spirit with which its hardy and persevering inhabitants have, in sixty years, triumphed over the difficulties opposed to them in the settlement of such a country, and accumulated so large an amount of agricultural, maritime, and commercial wealth, is an earnest of the success which will attend their future labours, aided by the co-operation of British enterprise and capital. In the present advanced state of the arts, and the recent triumphs of skill and science, which have contributed so largely to unite the families of mankind, and to diffuse to the remotest quarters the blessings of civilization and improvement, the progress of rated, and its connection with the United Kingdom strengthened and cemented, a result which will assuredly be productive of great reciprocal benefits."

not specified; the table therefore only refers to the exports of the Port of St. John for that year.

[†] In the custom-house returns of the outports of New Brunswick, the articles exported in 1839 are

BOOK IV.—PRINCE EDWARD ISLAND.

CHAPTER I.

GEOGRAPHICAL POSITION, AREA, AND HISTORY.

PRINCE Edward Island (formerly called St. removed there from Acadia, and by their John's) is situated in a recess or bay in the Gulf of St. Lawrence, and hes between 45° 50' and 47° 7' N. lat., and between 62° and 64° 27' W long. It is separated on the W from New Brunswick, on the S from Nova Scotia, and on the E. from Cape Breton, by the Straits of Northumberland The nearest points of Prince Edward Island to the neighbouring provinces are, West Cape, which is 11 miles from Richibuctoo in New Brunswick; Cape Traverse, which is 9 miles from Cape Tormentine in Nova Scotia, and East Cape, which is 27 miles from Cape Breton Island. Its exceedingly irregular outline somewhat resembles a crescent in its general appearance, the concave side being towards the gulf, into which its boundary capes project. A line drawn through the centre of the island would measure about 135 miles; its extreme breadth is 34 miles; and its area is estimated at 2,134 square miles. Who first discovered it does not appear to be clearly established Robertson, Bouchette, and M'Gregor, speak of it as the first land seen by Cabot after his discovery of Newfoundland in 1497, and suppose it to have been afterwards re-discovered by Vera-Hakluyt's brief narrative, and that the latter is not justified by Verazani's own account of his voyage. Be this as it may, it is mentioned by Champlain under the name of St. John, and its situation and extent are accu-French in the vast territory called New

account of its fertility allured settlers from Cape Breton; but in this they were discouraged by the French government, who were desirous of making the latter place the centre of their power in America. it was captured by the New England forces, but subsequently restored by the treaty of Aix la Chapelle. In 1758 it was re-taken, and permanently annexed to Britain; the number of inhabitants at this period is stated The island was by Haliburton as 4,100. well stocked with horned cattle; a considerable portion of it had been brought under cultivation, and some of the farmers raised annually 1,200 bushels of corn for the Quebec market. For the two preceding years Prince Edward had been the resort of the Mic-Mac Indians, who, assisted by the French, had made many sudden incursions into Nova Scotia, and committed fearful barbarities on the English colonists Lord Rollo took possession of the French governor's house, he there found several English scalps hung up as trophies. In consequence of the determined hostility manifested by the Acadians of Prince Edward Island, they were included in the order for the removal zani; but Murray remarks that the former of their countrymen from Nova Scotia, and conclusion seems wholly inconsistent with a large number were shipped off to the neighbouring continent, and to the southern colonies. Some were sent to France, where they were but ill received, and upbraided for the systematic aggression which had so materrally conduced to undermine the dominion rately described. It was included by the of France in North America. In 1763, the island was confirmed to Britain, and was France, and in 1663 was leased or granted, included in the general survey of the British together with the Magdalen, Bird, and Brion empire in America in 1764, which the first Islands, to the Sieur Doublet, a captain in American war put a stop to on the continent. the French navy, to be held as a feudal The survey of the island being completed in tenure, under a fishing company established 1766, various schemes for its cultivation and at the island of Miscon. Lattle progress, settlement were proposed: amongst others, except the establishment of a few fishing the Earl of Egmont, then first Lord of the stations, was made, until after the treaty of Admiralty, proposed settling it on a feudal Utrecht in 1715, when many French families plan, his lordship to preside as lord para-

be held from him, each baron to erect a diminished to one-half, the greater number castle or stronghold; maintain a certain sold being purchased by a few individuals on number of men-at-arms; and, with their speculation. under-tenants, to perform suit and service, according to the custom of the ancient feudal tenures of Europe. This strange scheme almost as extraordinary was adopted in its stead. It was resolved to grant the whole island to individuals considered to have claims upon the government (principally served during the war), on certain conditions prescribed by the then Board of Trade and Plantations. The number of applications being very great, it was arranged that the grants should be drawn by way of

lottery. The land was divided into townships, (each containing about 20,000 acres), some tickets being a prize of a whole township, others of half, and others of a third. By the conditions annexed, the holders of 26 of the townships were to pay six shillings per annum for each 100 acres; the holders of 29 other townships, four shillings per annum for the same quantity, and the holders of 11 other townships, two shillings per annum; all being equally bound to settle their land in the proportion of one settler to each 200 acres, within 10 years from the date of their grants, which, in the event of their failing to do, were to be de-Prince Edward Island being clared void then included under the same government as Nova Scotia, it was necessary for the governor to pass grants of the townships to the holders of the tickets; the mandamus under the king's sign manual commanding him to do so, bears date August, 1767; and the whole island passed from the crown in a single day, excepting only the small reservations for three intended county towns and two townships, which had been previously government, by a fishing company. The result was anything but satisfactory. Mr. John Stewart, to whom I am indebted for much valuable information on the subject,

mount, with a certain number of baronies to quickly exceeded the demand, the price

With the idea of promoting the settlement of the island, a large majority of the proprietors petitioned the king that the was rejected as impracticable, but another colony should be erected into a separate government from Nova Scotia; and, in order to defray the expense of this alteration, they offered to commence paying the one-half of their quit rents on May, 1769, although, by officers of the army and navy, who had the terms of settlement, they were only to become payable on Michaelmas day, five vears after the date of the grants, while the payment of the other half was to have been postponed for 20 years Their proposal was acceded to; and, in 1770, a governor (Mr. Paterson) and other officers arrived. At this time there were not more than 150 families and five proprietors on the island. After ten years little was found to have been accomplished. a few enterprising and conscientious persons acted up to the spirit of their engagement, among whom was Sir James Montgomery, then Lord Chief Baron of the Scotch Court of Exchequer; but the greater number shamefully neglected the duties they had voluntarily undertaken Had all the proprietors acted together, a fine and thriving settlement would, in all probability, have been speedily established; but, as it happened, the whole burthen was thrown upon a small number, who were quite unable to sustain the load so unjustly imposed on them, notwithstanding the vigorous efforts they made to do so. Tracadie was settled by Captain Macdonald, with 300 High landers, and the governor induced many exiled and other Acadians to establish themselves in the island. In some instances, poor settlers were landed in different townships, far from any other inhabitants, without proper provision being made for their immediate wants. Many, therefore, abandoned partly occupied, with the permission of the place in disgust, and spread unfavourable reports of the colony, by which its settlement was greatly retarded. Another obstacle is said to have arisen from the proprietors being unable to grant that soccage tenure says, that many of the holders of the tickets under the crown which is esteemed the most had never any intention of expending either secure. The colony progressed, however, their time or their money in settling the though but slowly; and as at the time of its island, and had used their interest only for being erected into a separate government, the sake of obtaining a saleable commodity. the representative of the sovereign had been The grants were, therefore, very soon brought authorized to summon a general assembly into the market: some of them at first whenever he should deem the island suffifetched £1,000 each; but as the supply ciently settled, Governor Paterson, in 1773,

Legislature.

In November, 1775, two armed American cruisers, taking advantage of the defenceless state of the island, landed at Charlotte town, plundered it, and carried off the actthe surveyor-general; but on the commanders proceeding to the American head-quarters, they were rebuked by general Washington, told, they had "done those things which they ought not to have done, and left undone what it was their duty to have done," and dismissed from their command. The prisoners were instantly set free, with many courteous expressions of regret for their sufferings, and the plundered property was entirely restored.

It is a pleasing duty to record an act. so perfectly in unison with the noble character

of Washington.

In 1776, it being found that the few proprietors who paid their quit-rents did not contribute a sufficient sum to defray the expenses of the government, and the governor being unwilling to proceed against the defaulters, who were generally persons of rank and influence in England, an application was made to parliament for an annual grant to defray the civil expenditure, which

application was complied with.

Both governor Paterson, and general Fanning in 1789, are accused of having greatly impeded the cultivation of the land, by endeavouring to monopolize it, to the detriment of the settlers with whom they were constantly at variance. The late duke of Kent, then commander-in-chief of the North American colonies (where, at two different periods, he resided ten years) paid much attention to the island; organized the formation of some provincial troops, cavalry and infantry, and the erection of batteries for the better protection of Charlotte town; the result of these precautions, was the preservation of the colony, during the war, from any molestation. It was at this period that the name of the island having been found inconvenient, from being the same as those of the chief towns in New Brunswick and Newfoundland, it was changed from St. John to Prince Edward, as a mark of grateful attachment to one who well deserved it. In Auarrears of quit-rents amounted to £59,162, place supplied by Sir Charles Fitzroy until

called the first meeting of the Provincial being, in many instances, considerably more than the townships would have realised if put up by auction. Government therefore determined to accept a moderate composition which should fall lightest on those who had made the most efforts to settle their ing governor, a member of the council, and land. The townships, whose proprietors were in arrears for quit-rent, were accordingly divided into five classes: 1st. Those which had the full number of people required by the terms of the original grants, were only to pay four years' quit-rent, in heu of all arrears from 1769 to 1801. 2nd. Those with half the population were to pay five years' quitrent, in lieu of all arrears. 3rd. Those with from a quarter to half the stipulated number, nine years' quit-rent. 4th. Those with less than a quarter, twelve years' quit-rent; and 5th. The owners of those which were wholly waste and uninhabited, were called on to pay fifteen years' quit-rent i. e., less than half the amount owed by them.

The liberal terms of this composition, by freeing the land from heavy claims, had an almost instantaneous effect on the prosperity of the island, which made rapid strides in population and social comfort. Some proprietors, nevertheless, did not avail themselves of this commutation, and waited for easier terms; it became, therefore, necessary to proceed against them, and in 1804 judgment was obtained by the receiver-general of the quit-rents against ten townships, five halfditto and one-third ditto, which were escheated to the crown for non-payment of the quit-rents. It is much to be regretted that the rents had not been annually exacted, instead of being allowed to accumulate for so long a period, as the holders of the land would probably have then endeavoured to improve the culture of the land, instead of suffering it to remain a useless waste. In 1803, the Earl of Selkirk took over about 800 Highlanders, and by his strenuous exertions, enabled them to attain a very prosperous condition; with the friends who have since joined them, their number now amounts to above 4,000. Governor Desbarre's succeeded Fanning, who was followed by Colonel D. Smith in 1813; the latter was recalled in 1823 for tyrannical conduct, which had caused much agitation in the colony. Lieutenant-colonel Ready was appointed in gust, 1800, the duke sailed for England, to his stead in 1823. Colonel Young received the sincere regret of the North American the appointment in 1831, and was succeeded colonists, in whose prosperity he had shown by Sir John Harvey in 1836. Sir John was himself warmly interested. In 1801, the removed to New Brunswick in 1837, and his 1841. lieutenant-governor, and was succeeded by for agricultural industry. Her majesty's the present lieutenant-governor, Sir Donald government have not agreed to this proposi-Campbell, in 1847.

establish a court of escheats to confiscate the the effect of stimulating some of the proprielands of absent proprietors who have not tors to settle their grants; and will increase complied with the terms of their grants, so the revenue of the colony.

Sir H. V. Huntly was the next that large and fertile tracts might be opened tion, but have sanctioned the imposition of The colonists have been endeavouring to a tax upon lands so situated, which has had

CHAPTER II.

PHYSICAL ASPECT-TOPOGRAPHY, GEOLOGY, AND CLIMATE.

The general appearance of Prince Edward Island is extremely pleasing, though it has nothing of the romantic boldness which characterize the northern shores of the Gulf. The surface, like that of New Brunswick, gently undulates, without any absolutely flat country, but no where reaches the elevation of mountains, the principal high lands being a chain of hills traversing the island nearly north to south, from De Sable to Grenville Bay.

The whole island was once covered with forests of beech, birch, maple, poplars, spruce, fir, hemlock, larch, and cedar, and although the labours of the lumbermen, the progress of cultivation, and many destructive fires, have greatly thinned their rich luxuriance; yet still they spring up spontaneously and adorn the land, which is clothed in verdure to the very edge of the water. According to Dr. Gesner, peat bogs are very numerous, although few of them are of any great extent. The largest and most valuable deposit is on the S. side of Cascumpec harbour. It contains a burned forest, and, as the quality of the five, with soundings of soft mud or strong clay. peat is very superior, will, in course of time, be valuable for fuel.

The constant action of the strong tidal waters of the Gulf of St. Lawrence, has caused the island to be indented, and intersected by bays, creeks, and inlets, which are so numerous and extensive, that scarce any part of the territory is more than eight miles distant from tide water. Of the numerous harbours the principal is that on which the capital, Charlotte town, is built, situate on the S.E. side of the island, at the a decidedly prepossessing aspect to the capibottom of Hillsborough Bay, and at the con- tal of this interesting colonv. fluence of the three rivers-Hillsborough,

York, and Elliott. The haven is one of the most secure in the Gulf of St. Lawrence. though not more than half a mile wide at the entrance: it has several batteries protecting it, and if occasion required, could be placed in a situation to defy attack from seaward.

The land on which the town is built rises gradully to a moderate height above the sea. and has a maritime communication, by means of the three rivers before-mentioned, with a considerable portion of the island. Hillsborough river (or rather an inlet of the ocean) flows past the town to the eastward, with a depth of eight fathoms, so that the largest ships may anchor close to the capital, and vessels of 200 tons go up the Hillsborough river, 14 miles above Charlotte town. Each of the rivers, Hillsborough, York, and Elliott, have a sufficient depth of water for the largest vessels for several miles, where they may he secure from all winds, and the tides are so strong as to enable ships to work out and in against a contrary wind; the rise at full and change being nine feet, and at neap, four to

The town appears from the harbour to great advantage, the streets are broad, and regularly laid out at right angles, with five or six vacancies for squares; most of the private houses have neat gardens attached, and together with the public buildings, such as the Court-house (in which the Courts of Judicature, as well as the Legislative Assembly, sit), the Episcopal church, the New Scots Church, the Roman Catholic and Methodist chapels, excellent barracks, &c., give

The Colonial Building in Charlotte town

now finished.

The island is almost naturally divided into three counties, viz., Prince's on the W., Queen's in the middle, and King's on the Prince's county contains five parishes, viz., North, Egmont, Halifax, Richmond, and St. David's, which comprise 467,000 acres, exclusive of a reservation of 4,000 acres for Prince town and royalty. It has several fine harbours; two on the N. shore are very valuable, as the winding coast forms a deep curve in which it is dangerous for vessels to be caught in a stiff N E. wind, in which the points of the island E. or W. cannot be cleared, and a ship must therefore run on shore, or else seek one of the large barred havens, into which two or three high seas will cast her safely.

Richmond Bay, the largest in the island, is barred with a sand bank, over which there is from 12 to 15 feet water; from its wide entrance and great extent (being 9 miles wide, and 10 miles deep), the centre part is of course unsheltered, but there are several inlets perfectly safe from all winds, with There from 3 to 4 fathoms good anchorage. are six beautiful islands in the bay, three of which have an area of 500 acres of good land. Seven townships, containing 140,000 acres, the coast, by means of Cavendish channel, with the fine harbour of Holland Bay to the from the eastern-coast of Richmond Bay, Prince town has been laid out, but the intended site is occupied by straggling farms. The settlers are chiefly of Scottish descent, many of them being the descendants of those from Cantyre, who settled with Judge Stewsuperstitions that were formerly so prevalent ghost stories of Kirk Alloway have all the freshness of yesterday; indeed, it is not a customs and traditionary stories, now passing away, and nearly forgotten in England, Ireland, and Scotland, are religiously rememcultivated.

Lennox Island, situate on the N.W. of

cost £14,500, was commenced in 1843, and is safely accessible, but narrowed by islands at its entrance; its chief harbour, called Cascumpec, is extremely commodious, and well situated for the fisheries. Between this bay and that of Richmond, an extensive range of sand mounds have been formed by the waves, between which and the main shore is a lagoon, eighteen miles in length, and from one to three hundred yards in breadth. The shores of the lagoon are uninhabited. The fertile land round Holland Bay, is cultivated chiefly by Acadians, who have also a settlement called Tigniche, near the North Cape. From thence to West Cape there is no harbour except for boats; and a large portion of rich soil, though clothed with excellent timber, and watered by several fine streams, is still unoccupied. After passing West Cape, we arrive at Egmont Bay, which is sixteen miles wide and ten feet deep, with dangerous shoals off its entrance, and only affording shelter in N , N.E., or N.W. winds. On its eastern boundary are three Acadian Hahfax, or Bedeque Bay, is a villages. spacious inlet, reaching nearly across to Richmond Bay on the opposite coast,-Wilmot and Webber Cove being only about five miles apart. It has a fine harbour, well sheltered by a small island, and is increasing in importance as a shipping port. The banks of the abut on this bay, which has the advantage two small rivers which empty themselves into of a safe inland water communication along the harbour are populously settled, and there are several ship-building establishments.

Queen's County adjoins Prince's county On a fertile peninsula projecting on the S.E, and extends about 40 miles, embracing the whole width of the island. It contains five parishes-Grenville, Charlotte, Bedford, Hillsborough, and St. John; 486,400 acres being comprised in them, exclusive of the 7,300 reserved for Charlotte The N. coast of this town and royalty. art's family, and who retain the habits and country is extremely picturesque, but possessing few harbours, except for schooners in their native country, while the music, the and small vessels; their names and positions songs, the tales of the Covenanters, and the will be sufficiently shewn in the map; this portion of the coast is tolerably well settled, chiefly by Scotchmen and Acadians little remarkable that many of the ancient Grenville Bay and the banks of its small tributaries, are situated New London, Elizabeth town, Campbel town, and other settlements; that of Cavendish, at the E. end bered and preserved in our colonies. The of the bay, is remarkably flourishing. Harsurrounding tract, called the Royalty, is well rington, or Grand Rustico Bay, has a long narrow island across its entrance; on its shores are two Acadian villages, and on the Richmond Bay, is the chief meeting place banks of its tributary streams, Hunter and of the remnant of the Mic Mac Indians. Whately rivers, are some thriving settle-Still further N., is Holland Bay, which is ments one of these, called New Glasgow,

is peopled principally by emigrants from the city of that name. On Little Rustico, or Stanhope Cove, is a tract of very fertile land containing many extensive farms. Eastward to Bedford Bay, and from thence to Savage Island, the coast is more or less occupied by settlers principally of Scottish descent. The south coast of this county abounds in safe Tryon village, nearly opposite Green Bay, or Baie Verte, in Nova Scotia. is one of the most populous and pleasantly situated places in the island. Crapaud and De Sable are also rather thriving settle-On the eastern side of Hillsborough Bay is the district of Belfast, which includes the thriving villages of Great and Little Belfast, Orwell (on the bay of that name), Pownalls, Perth, Belle Creek, Wood Islands. and others, chiefly formed by Lord Selkirk's colony.

King's County - comprises the eastern portion of the island, and is divided into four parishes, East, St Patrick, St. George's, and St Andrew's, which include 412,000 acres, exclusive of the 4,000 acres reserved for George town and Royalty. The town plot has been laid out near the confluence of the Cardigan, Montague, and Brudenelle rivers, or rather on a peninsula formed by them, and although little progress has vet been made, its excellent harbour, good fisheries, and advantageous position for trade in the Gulf of St Lawrence, will probably render it a place of considerable importance. The coast land from Savage Harbour (between King's and Queen's county) to the Bay of St. Peter, is termed the Lake Settlement, from its bordering on a pond or lagoon, which has an outlet into the Gulf. The Bay of St. Peter, into which the river Morel falls, is about nine miles long, with a narrow mouth, and pierces the coast, forming The lands the peninsula of Greenwich. fronting the bay have been greatly improved by the Messrs. Worrel, who have built granaries, grist mill, and offices on a large From Greenwich to East Cape, the whole line is without a harbour. It is called the District of the Capes, and 1s well cultivated by settlers from Scotland and the Hebrides, who raise large and valuable crops of wheat, barley, &c. On the east shore are Colville, Rollo, Fortune, Howe, and Boughton Bays, all small harbours with thriving settlements of Highlanders and Acadians. We have now reached Cardigan Bay, on which George town, the intended chief town of the district is situated. It receives

(as before mentioned) three rivers, of which, however, the largest does not flow above twelve miles, and forms a spacious harbour, with a deep and safe entrance. Island, situated at the entrance of the harbour, contains 800 acres of excellent land. In St. George's parish are several safe but small havens, all more or less sand-barred. St. Andrew's, at the mouth of the Montague, is a rising village. Murray Bay, in the parish of St. Andrew's, affords a well sheltered harbour, with a rather intricate entrance. Ships, brigs, and schooners are built here. The soil around is very fertile, but has not been many years under cultiva-The foregoing brief description is sufficient to show how admirably adapted Prince Edward Island is for carrying on an extensive fishery, while its level surface, abundantly irrigated, renders it equally favourable to the pursuits of agriculture, and with its singularly salubrious climate, make the little island an attractive spot to intending emigrants.

Geology —Prince Edward Island is a pastoral country-neither limestone, gypsum, coal, nor iron, have yet been discovered, but in many places the earth and rivulets are deeply impregnated with metallic oxides; the soil is in general a light reddish loamin some places approaching to a tolerably strong clay-in most districts more or less sandy, but where the latter inclines to a dark colour, it is very fruitful. Red clay for bricks, and white for common pottery purposes, are met with in abundance. The predominating rock is a reddish sandstone, but occasionally, blocks of granite are met with; in fact, the whole island seems to have been left dry in latter ages by the waters of the Gulf of St Lawrence.

The following is an abstract of the geological survey of the island by Dr. Gesner, which, although long, is too valuable to admit of further curtailment :-

"Hillsborough Bay is an expanded sheet of water, situated between St. Peter's Island and Point Prim. It embraces three lesser bays, and receives a number of rivers. Of the latter, Hillsborough, York, and Elliot, or North River, are the most important. These, when united, form the harbour of Charlotte town, the capital of the island, which stands upon the extremity of a peninsula at the junction of these three streams. At this place the survey was commenced, and the descriptions will be given in the order in which they were made.

"The rocks are most advantageously examined in this quarter at the entrance of the harbour, which is only half a mile wide. They here present perpen-dicular cliffs from 10 to 20 feet in height; they are frequently undermined by the waves and currents, and are sometimes seen in heaps of debrie that have fallen on the beaches. All these rocks belong to an extensive group of red sandstones that form the basis of the island, and also appear on the neighbouring coasts of Nova Scotia and New Brunswick. At the mouth of the harbour they consist of brick-red sandstones, micaceous sandstones, gray sandstones, marly clay, and red shales. The general direction of the strata is E. and W., and the dip is from 10 to 15° N. The strata are covered by debris from those rocks, sometimes to the depth of 20 feet. The soil is also red, and frequently underlaid by a subsoil of stiff red clay.

"The shores of east, north, and west rivers are seldom bounded by cliffs, but descend gradually to the water, being frequently skirted by tracts of peaty ground, salt marsh, and a mixed alluvium; the rocks are similar to those above-mentioned; and a section taken near the Indian encampment, at the mouth of the west river, corresponds with others taken several miles farther westward. Reposing directly upon the rocks, there are frequently thick deposits of clay. One of these occurs opposite the town, near the Ferry Wharf, and on the property of Mrs Desbrisay, and is very favourably situated for an extensive manufacture of bricks. In this district, and at many other places, a black porous sandstone, containing lignite, was observed, from its colour, and the presence of lignite, it has been supposed by some to be an indication of coal, but it seldom accompanies that important mineral.

"Outside of the harbour of Charlotte town, eastward, the cliffs are from 30 to 40 feet high, or thus: diluvium, 14; red sandstone, 10; conglomerate limestone, 4, red and chocolate sandstones, 8 = 36 feet. Conglomerate limestone occurs near the entrance of Charlotte Town harbour both eastward and westward of the Blockhouse. At the before-mentioned cliff it forms a strata between the sandstones. It resembles the common conglomerate of the coal group, being apparently a collection of small pebbles cemented but instead of quartzose or flinty pebbles, the nodules of the limestone and the cementing matter contain carbonate of lime. A piece of this rock, of medium purity, yielded of 100 parts-carbonate of lime, 68; silicious residuum, 44 = 112. The limestone at this place is therefore sufficiently pure for the purposes of agriculture, but its situation is unfavourable for quarrying any great quantity. A thin stratum of white and compact limestone appears at Bellevue, on the farm of Mr. Charles Hazard. At Lobster Point strata are again seen in a bold cliff, and dipping N.N.E. at an angle of 4°. From the soil downwards to low-water mark, they are as follows :- diluvium, 6; red sandstone, 5; red shale, 5; red sandstone, 5; red

marly clay, 5; sandstone, 6 = 37 feet.

"From Lobeter Point to Gallows Point the shore is low, and the mouths of the rivers and creeks are bordered by tracts of marsh, and the shores of the bay are lined with sandy beaches. Tea-hill, an eminence in a ridge of elevated land already noticed, discloses at several places rocks similar to those just named. Between the hill and Orwell Bay, and embracing the fronts of Lots 49 and 50, a large tract occupied by flourishing villages and bordered by marshes, is very low; much of the soil has been improved by the aluvium brought down by small streams that descend from the higher grounds. Marsh alluvium, or marsh mud and peat are abundant, and may be cheaply applied as compost manure.

"Governor's Island, in Hillsborough Bay, is situated

about five miles from the main land of which it once formed a part, the intervening land having been removed by the operations of the sea. At low tides the separating channels are still very narrow and shallow. The island contains upwards of 100 acres of excellent soil, a part of which is still covered by the original forest.

"The rocks of Governor's Island are different in their character from those just noticed, and from a few fossils contained in them, they appear to belong to the coal-field of the opposite coast. They are compact gray sandstones, conglomerate, red and blue shales, marls, and limestones. Pieces of copper ore have been found on the N. side of Governor's Island. Upwards of 20 lbs. of the ore was obtained—the best samples contain 40 per cent. of pure copper. The site of the ore was once occupied by a tree which has been fossiled by copper, and the vegetable texture of the wood can still be traced in the compact cupreous

"Orwell, or Gallows Point, is a small peninsula between Pownal Bay and Orwell Bay. At its western extremity it is composed of rocks belonging to a coal formation-they are coarse and fine micaceous sandstones, conglomerates, red, white, and blue shales, fire clay, and blue compact, and conglomerate lime-stones. The general direction of the strata is N.N.E. 8°, but both are very variable, and the beds have evidently been much disturbed—at one place, a fault of four feet was observed. These rocks form a low indented cliff upon the shore, being covered by six feet of diluvium. Near the Point, a conglomerate limestone, like that of Governor's Island, appears near high-water mark, and thin strata of that rock occur This limestone also appears on the farms in the cliff of Mr. Young and Mr. Mutch, where it gradually rises to the surface and becomes a compact blue rock, in a stratum from four to six feet in thickness. It is well situated for being quarried, and the limestone is of a good quality.

"The sandstones and conglomerates of the Point contain the remains of trees and other plants characteristic of the coal measures. The trees are all prostrate in and between the strata; the original bark has been changed into coal, and the woody parts of the trunks are now seen in masses of sandstone, iron ore, or sulphate of barytes; in the latter, the vegetable fibre still remains distinct. They are quite different from any of the trees now growing upon the island. A very thin seam of coal was found in the face of the cliff, in which there is also a small quantity of the sulphate of barytes associated with iron ore.

at The rocks of this imperfect coal-field were traced eastward into the country upwards of four miles, where they seem to terminate, or they are succeeded by the red sandstones or marls. At the extremity of Gallows Point, and opposite a low tract of peaty ground, there is a submerged forest: upwards of three acres are occupied by stumps and roots of the spruce, fir, and hemlock, which are covered by every tide, being from 4 to 8 feet below high-water mark. It is certain that these trees grew upon the spot where they are now seen, as their roots and the soil that nourished them are all present: their trunks have been broken down by the ice, and at low water the tract resembles the clearing of the new settler. From a variety of facts, it is probable that there has been a submergence of the land itself, of which there are proofs in different parts of the island. The rocks of the coal formation at Orwell Bay are succeeded by the red sandstones, which on the south side of the

bay form perpendicular cliffs from 36 to 70 feet high. The strata run east and west, with a general dip south of 15°; they are coarse and fine red sand-

stones, red shales and marly clay.

"At Point Prim, and thence to Flat River, Belle Creek, and Wood Islands, the coast is low, and often bordered by shingle beaches. Peat swamps are numerous. The soil, having resulted from the disintegration of the rocks, is red; still there are small patches of white sand, the fertility of which might be much improved from the abundant supplies of marsh and mussel mud situated along the sides of the rivers, creeks, and inlets. Southward of the Wood Islands, and at Burnt Woods, the cliffs of sand-The direction of the strata is E, 32° S, dip. N 30°, E. 10°. Near the residence of Mr W. le Lacheur small quantities of manganese ore were seen in the soil Near Bear Cape there is a collection of peat exposed to the sea.

"The shore on the E. side of Colville Bay was evidently inhabited in former days by the native Indians; and, from the character of their relics, they appear to have been Micmacs, the descendants of whom are still upon the island These relics consist of axes, spears, and arrow points, and rude nots made of stone; barbed fish-bones, which they employed in fishing, are also found. Some of the arrow heads are made of Labrador felspar, agates, hornstone, and jasper The felspar is identical with that found at Labrador, the agates are like those of the Bay of Fundy; and, as none of these minerals have been found in situ on the island, it is very probable that the pieces used by the Indians were brought from those places. From East Point to the entrance of St. Peter's Bay, a distance of nearly 40 miles, the coast is straight, very level, and not indented by a single river-mouth or harbour The shore is bounded by a series of perpendicular and overhanging cliffs, which are notched only at those places where the rocks descend into the sea.

"Near St. Peter's Bay the coast is bold, and the cliffs are from 50 to 75 feet high Against these natural precipices the sea dashes with great fury, and from the yielding nature of the rocks the dilapidation of the coast is very rapid. Softened by meteoric agents, and expanded by the frosts of winter, immense masses fall in the spring, and the shore is covered by debris, which is soon broken up and removed by the waves, the sand being thrown inwards upon the land by gales of wind. Most of the strata on this shore are similar to those of the opposite coast—indeed they are the same strata continued across the island. The following section was taken in St. Patrick's parish —diluvium, descending 13 feet; fine red sandstone, 11; red shales, with their laming of white himestone, 7; red marly clay, 8; red sandstones, 4; coarse red sandstones, 8; conglomerate, 12 = 63 feet.

"St. Peter's Bay is a narrow but deep indentation and a safe harbour. Its mouth is protected by s chain of sandhills, having a narrow channel between them that is capable of admitting large ships at certain times of tides. These sandhills resemble the comes of extinct volcanoes . they are liable to constant change, and were they not covered with bent grass, they would be much more liable to drift away before the winds than they are at present. Near the mouth of the bay, a forest of hard wood, consisting of beech, birch, and snaple, has been buried by the drifting sands; the ancient changel of the river has been filled

up; and the wharfs built by the French, who were the first civilized inhabitants, have all been buried in the shifting shingle. An opening formed by the sea during a gale, exposed a thick bed of oyster-shells and a number of Indian relies.

"The turnpike between St. Peter's and Charlotte Town passes over and between a number of diluvial gravelly mounds, frequently called by American geologists 'saddle-backs.' They are proofs of the former existence of powerful currents of water that have passed over the island previous to its elevation above the sea. Boulders of granite, sienite, trap, and other rocks are scattered over the surface of the southern division of the island, although they are less numerous here than they are farther north

"The red sandstones, shales, and marly clay are again exposed at Cove Head, near the entrance of Little Rustico; they also appear at a number of localities at Grand Rustico and Hunter River Great quantities of oyster and other shells are found upon the banks of the rivers and sides of the bays they are sometimes six feet in thickness, and are covered by a soil containing much phosphate of lime. The separation of all the bivalve shells, and the rude instruments and even skeletons found in these deposits.

show that they were made by the savages.

"At the fine settlement on the banks of Glasgow river the lands become more elevated, and they are broken by deep ravines, or narrow gorges. The rocks in this district, and on parts of the parishes of Grenville and Charlotte are chiefly coarse calcareous sandstones The soil is a bright red clayey loam, and highly productive The elevated ridges of wild land are covered with majestic forests of the hard woods. From New London Harbour to Richmond Bay the distance along the cosst is about ten miles. The shore is again fronted by perpendicular cliffs from 40 to 60 feet high, called the 'Capes' The rocks are thick and shelly strata of red and chocolate-coloured sandstones, with their beds of clay, and occasionally streaks of white limestone; the dip is very variable, and at many places the beds are horizontal.

"Sand-hills extend from Hog Island to Indian Island, and thence to Holland Harbour, or Cascumpec, the whole distance being upwards of 20 miles. They are only interrupted by the channel to Port Hill and Cavendish inlet, and forming a barrier between the upland and the sea, they effectually prevent the washing away of the soil by the tides and waves Between this barrier of sand and the main shore there is a beautiful lagoon, averaging a quarter of a mile wide, and with sufficient water to allow boats and canoes to pass. While the sea outside is agitated by gales, the water of the lagoon remains tranquil, and offers a safe and easy channel of com-The shore side of the lagoon is skirted munication by small marshes, and the sea-wall side by beaches and collections of alluvium, which, at the time of my visit, were occupied by great numbers of plover, herons, ducks, and other kinds of birds. The sandhills are covered by bent grass, which protects them from the influence of the wind. This grass is sometimes mowed, and employed by the inhabitants for fodder At the entrance of the lagoon, and occasionally throughout its whole length, there are boulders, some of which will weigh ten tons: They are forced towards the shore by an expansion of the ice during the severe cold of winter. The rocks, wher-ever they were observed, do not differ from those already described, but, in consequence of the shore being very low, only a few of the most superficial

strata can be seen. A few families are settled on the side of the lagoon, but the surface of the country generally is an unbroken wilderness. At one situation the hard wood forest is seen standing upon the very margin of the salt water. The sea has flowed in among the beech, birches, and maples, by which they have been killed, and large pieces of drifted wood were observed among the decaying groves of the

upland.

"One of the most remarkable circumstances in regard to the geology of the island was observed at Cascumpec harbour. On the south side of the bay there is a peat bog called the 'Black Bank,' reaching three miles along the shore, and containing nearly 2,000 square acres It reposes directly upon the red sandstone and marly clay, and is from ten to twenty feet in thickness. This bog, with all its decayed spagneous plants, is of fresh-water origin. Two groves of spruce and fir were observed to be buried in it at different levels, and their trunks and roots may be seen projecting from the bank. The peat is of excellent quality, and will, in the course of time, be valuable.

"This deposit now forms one of the shores of the harbour, and at high water its lower part is seven feet beneath the level of the sea, it is constantly being washed away, and masses of it are seen scattered along the borders of the lagoon. At low water the side next to the bay is partially drained, so that the plants from which the peat has been derived have ceased to grow, and a part of the surface is

quite dry.

"It is not improbable that the site of this peat-bog was once a lake which was gradually filled up by the growth and decay of the mosses and other plants; but if the lake had been below the common sea level, the tide would have found its way into it through the channel necessary to give exit to the streams coming in from the adjacent lands Under such circumstances the mosses, spruce, fir, &c could never have flourished, as sea-water destroys them, nor is it probable that this bog moved forwards like a glacier into the sea, from having the barrier between it and the gulf washed away. It is now as high as the surrounding land, and does not repose upon an inclined plane, over which it could move The water of Cascumpec harbour is deep, and the shore is so bold opposite Savage Island, and near the residence of Messrs. W and C Woodman, that ships may lay afloat alongside of the land, yet, the surface of the earth is scarcely elevated seven feet above the top of a medium tide From a variety of facts that might be quoted, it appears quite evident that parts of the island have been, within a comparatively recent period, submerged, while, perhaps, others may have been elevated.

"The evidences of elevation of different parts of the shores of the Gulf of St. Lawrence are evident from the collections of recent shells found in clay and marl beds now situated from 10 to 200 feet upwards above the present level of the ocean. In a very interesting paper, addressed by Captain Bayfield to Mr. Lyell, and published by the Geological Society of London, in 1839, this elevation of the land is stated to extend far up the river St. Lawrence Besides this uplifting of the land at numerous places in British America, there has been a sinking down of the surface at certain localities; or, as it is understood by geologists, there has been a bending of the crust of the earth, by which some places have been elevated and others depressed—the ele-

vation having, as it is supposed. exceeded the depression

"Admitting, then, that the tract of country where the above peat-bog is situated was lowered, the sea would immediately have extended its bounds, overflowed a part of the country, and finally have its margin upon the border of this bog. Savage Island, composed of red sandstone and diluvium, is still above the water, and the waves have raised a bar of sand, which the winds have since lifted into a ridge that is now stretched across the mouth of the bay.

"Between Westmoreland and Hillsborough Bay the lands are elevated, being occasionally broken by steep hills and deep ravines. Near the mouths of Tryon, Brokelby's, Rice, and Allan Coves, and between the latter and Fort Amherst, there are perpendicular chiffs from 40 to 60 feet high. These chiffs are also composed of the red sandstones, shales, and conglomerates, with conglomerate limestone The following section was taken between St. Peter's and Allan's Cove —diluvium 8 feet; conglomorate 4, red sandstone 10; red shale and marly clay 6; impure limestone 1; red sandstone 2; conglomerate limestone 4 = 35 feet.

"The course of the strata is N.E., with a general dip of 5° N W From the facts that have been notreed, and others that might be introduced, it appears very evident that, excepting the coal-field at Gallow's Point and the trap-rocks of Hog Island, Prince Edward Island consists of groups of red sandstone, the strata of which have been already

described.

"Allwoums are produced by causes that are daily operating upon the surface of the earth. Frost, snow, ram, changes of temperature, &c, all tend to disintegrate the hardest rock, and finely divided mineral matter is constantly carned downwards by the shower, as well as by the flood, from the hills into the valleys, and spread along the borders of the streams by the overflowing of their waters. The sediment thus produced may be called the alluvium of rivers. Again, by the constant operations of the tides and waves of the sea, the shores are worn away, the sands of the sandstones and pebbles of the conglomerates are disunited and spread out in beaches, while the fine particles of clay and marl, from being mixed with the water, are transported to great distances, and finally thrown into the river mouths and estuaries, where they form estuaries of the sea.

"The alluvium of rivers and the alluviums of the sea, are often mixed on the coasts, the one being brought downwards by the fresh, and the latter inwards by the salt water. Such alluvial matter, whenever it is sufficiently drained, is the richest of natural soils, and, by being mixed with the sandy uplands, it will, in all ordinary cases, greatly increase their fertility. Alluvial deposits are very numerous on Prince Edward Island. At the extremity of Egmont Bay there is an alluvial tract of 2,000 acres. At Bedeque, but 42, parish of St. Patrick, and other places, such tracts are also extensive. As the tides only recede a few feet, it is not probable that these tracts can be reclaimed by dikes, or embankments, yet they may be greatly improved even in their present condition, and they are valuable for the natural grass they produce for hay.

Peat is formed by the growth of sphagneous or mossy plants. Ponds, lakes, and low tracts are frequently filled by the productive powers of vegetation. The mosses first begin to ggow around the shores;

each succeeding season yields a new crop; the preceding one having been buried beneath the water, where it is preserved from decomposition, and this process is carried forward until the lake or pond is filled. These plants will also close up the outlets by which the water makes its escape from low tracts. The result is the forming of ponds, and, as forest trees cannot grow in situations where their roots are constantly submerged, they decay, fall, and are finally buried in the peat, which spreads its annual layer even over the surface of the water. No sooner is the accumulation thus produced raised so high that there is not sufficient moisture on the surface to nourish the peat-forming plants, than the whole process is terminated, and the site becomes a barren waste. Peat bogs are numerous on the island, but, in general, they are small. The most extensive of them is at Cascumpee harbour. It contains 2,000 acres. These bogs will supply a useful article for compost manure, and afford fuel, should it ever be required.

"A Marly Clay is found interstratified with the sandstones; it sometimes contains ten per cent of lime. Its value for manure may be tested by the application of a few drops of muriatic acid, the quantity of lime present will be indicated by the briskness of the effervescence. It will be useful when applied to light and sandy soils, which the clay will render

retentive of moisture.

"Boy Iron Oie; or, Hydrous Peroxide of Iron— This ore appears in the soil, and in bogs at many places It has evidently been washed from the soil, to which it imparts the colour of the rust of iron

"Several deposits of the hydrated oxide of manganess, on black wad, are noticed, they have been collected b. a process similar to that by which bog ore is produced. By the disintegration of rocks containing manganese, the ore is set at liberty and washed by rains into shallow basins on the surface. It is frequently found associated with the hydrous per-

oxide of iron, and mixed with clay.

"The remains of ancient forests, now submerged beneath the sea, are not uncommon on the coasts of North America The trees are such as usually grow on low land, and with them peat sometimes occurs Several sunken forests are mentioned in Professor Hitchcock's Goology of Massachusetts During the geological survey of New Brunswick, I discovered a submerged forest on the south side of the island of Grand Manan At different localities in Nova Scotia there appears to have been a subsidence of the land At Prince Edward Island this remarkable fact may be seen at Gallows Point, but more especially at Cascumpec, where, with a forest, a large peat bog is now beneath the level of the sea Many theories have been proposed to account for such phenomena, yet it is probable that they can only be explained but by referring them to movements which are known to take place in the crust of the earth, whereby certain tracts are elevated and others are depressed

"Dunes or Sundhills—During storms the sand of the shore is often thrown up by the spray, and not withdrawn by the reflux of the wave, and having been dried by the heat of the sun, it is driven inwards upon the land by winds, and forms considerable elevations. Such hills are called dunes, for which the borders of the Nile are celebrated. Chains of such hills are stretched across the mouths of nearly all the bays of the eastern coast of the island, where they form harbours with narrow channels, and contribute much to the beauty of the scenery. The sand is also blown upon the uplands, where it sometimes,

by its constant accumulation, proves to be a serious injury to agriculture. The principal dunes are covered with bent grass, which, when it is firmly rooted, prevents a further progress of the sand. Trees and beach grass are sometimes planted in other parts of the world to arrest the moving drift.

"On the inner side of these dunes, a good alluvial soil is sometimes collected, upon which wild plants grow luxuriantly, and some tracts would produce wheat and clover. From the great abundance of oysters and other mollusca on the shore, these sands occasionally contain communuted shells, and will effervesce in the strong acids Such sand, from containing the phosphate of time would be beneficially

applied to heavy clay soils.

"Boulders — Along the whole line of the northern part of the American continent, where it skirts the Atlantic, loose blocks of granite, sienite, trap, greenstone, porphyry, and other rocks are found scattered over the surface, and on formations from which they they are altogether different. They vary in weight from a few pounds to fifty and even a hundred tons. They occur in the plains and valleys, and upon the table lands and hills. In some instances the angles of these masses have been worn off, as if they had been submitted to friction upon sea coasts again they appear with sharp edges, as if they had been recently removed from the quarry

"These masses of rock are called boulders, and may be properly classed with a variety of diluvium found with them on the surface of the earth. The surfaces of the solid rocks at numerous situations where these boulders are seen, are found to be furrowed and scratched in certain directions, as if hard and heavy bodies had passed over them with great force and friction. These are called diluvial grooves, which were evidently produced by the passages of

the boulders during their transport

"The boulders of this part of America are situated southward of the mountain masses from which they have been removed, and they have been traced, but goologists, to their birth-places. I have found erratice blocks of stone belonging to the central granitic ridges of New Brunswick, fifty miles and upwards southward of their original sites; and boulders from the mountains of Gaspe are scattered over the low lands of the northern part of New Brunswick, having been transported across the Bay Chaleur to the distance of eighty miles. The size of the boulders wouldly dimmish in proportion to their distances from

the parent mass.

"The forces by which these blocks have been removed have been directed from the north towardthe south The diluvial grooves run from northwest to south-east, and north-east to south-west, and there are still greater variations in their courses, or such as would arise from the passage of a sea over submarine mountains Without entering upon any full description of diluvial drift and the causes that have produced it, I may remark, that boulders of granite, sienite, trap, &c, appear occasionally in every part of the province; they are, however, far more numerous on the northern part of the island than to the south, a circumstance that accords with a fact already noticed The boulders are not only found upon the surface. but also lodged in collections of diluvial detritus. The largest of these erratic blocks will weigh five tons and upwards, and as there are no rocks in situ of the kind on the island, some of them must have been transported to a distance of 200 miles and across the Gulf of St. Lawrence, where

it is 100 miles wide. Besides the boulders of igneous rocks among the drift at Crapaud, there are pieces of large fossil trees, like those of the strata, belonging to the coal-field of New Brunswick. These may have been imported from any part of the district between Bay Verte and Point Miscou, and over distances from 20 to 100 miles; certain it is they do not belong to the island, and therefore they are properly referred to the nearest rocks which contain fossil plants of a similar kind. Several theories have been proposed to explain the phenomena of boulders. Formerly, by many they were ascribed to the effects of the deluge recorded in the Mosaic history; but it is now known that causes are still in operation whereby they might have been transported. More recently an opinion has prevailed that they were moved by currents of water at that period when the districts where they are found were submerged beneath the sea. Still it is not probable that aqueous currents could ever have carried the boulders across the deepest sea channels to opposite shores, and up steep acclivities, even to the summits of mountains By such causes masses of rock, gravel, sand, &c are daily urged forward by the currents of rivers, but they do not afford satisfactory evidence that the boulders and diluvial drift, found under the above-mentioned circumstances, have been removed from their native situations to their present sites by the unaided operations of water

"If we look to causes that are still active upon the earth, it will be observed that ice performs a most important part in the transportation of mineral mat-The immense icebergs and sheets that are annually formed in almost all the bays, rivers, and estuaries of the North American coast, embrace fragments of rocks, gravel, sand, drift-wood, and every thing that was in contact with them at the time of their congelation. In the spring, when by the heat of the sun the ice begins to dissolve, it is loosened from the shores, lifted by the spring tides, and carried by currents out to sea, or to other shores, with many of the materials it laid hold of during the months of intense I have observed, also, that where the ice, loaded with boulders, is forced over the surfaces of rocks, they leave parallel grooves in the direction of the currents like those that occur on the faces of the

strata now elevated far above the sea.

"This natural mode of transportation is carried on in a greater or lesser degree from the high latitudes where scebergs are formed, to the south, where water only freezes to the depth of a few inches, as the warmth of the spring or summer increases, and the ice dissolves, the transported rocks, sand, and gravel are liberated, and they fall to the bottom of the sea, are lodged upon its borders, or on the shores of the bays, inlets, and rivers. Minerals peculiar to the coast of Labrador are therefore found on the shores of Newfoundland, Cape Breton, Prince Edward Island, and on the Atlantic side of Nova Scotia on the Gulf of St. Lawrence are carried to opposite shores, and thousands of boulders drop annually from the ice to the bottoms of the bays, and are scattered along the coasts. I found blocks of red sandstone of the head of the Bay of Fundy, at the western extremity of Grand Manan, the distance between the two sites being upwards of 170 miles. The trap-rocks on the south side of the Bay of Fundy are exchanged for the slates and grauwacke of New Brunswick, the distance between them being from 40 to 70 miles. The sandstones of Cumberland are sometimes brought into the basin of Munes; and manufactured grindstones were identified, a few years

ago, that had been brought from the former to the latter place, a distance of 140 miles, in masses of ice. "It will be admitted by every practical geologist, that the chief part of the stratified rocks of North America have been formed beneath the sea, a fact established by the numerous remains of marine animals contained in them. Long since these rocks were consolidated they have been submerged, as may be proved by the recent shells now found in beds of marl and clay several hundred feet above the level of the sea. That Prince Edward Island has been raised from beneath the waters of the gulf, few will doubt who carefully examine its valleys and beds of dilu-

vium. Guided by much corroborative testimony, a part of which has been referred to as briefly as possible, I cannot refrain from expressing my opinion, that the boulders of Prince Edward Island have been brought hither by ice during that period when its surface was beneath the waters of the Gulf of St

"Diluvium .- At many situations on the island, there are beds of small rounded stones, gravel, and sand, varying from 5 to 50 feet in thickness. These collections of detritus often form chains of oval hills, and skirt the flanks of the valleys in such a manner as to impress the mind with the belief that they were thrown up by the agency of water. Indeed, the stra-tification of the gravel and sand which appears occasionally, renders it quite evident that currents of water have been active agents in their accumulation, yet, many of these superficial deposits bear no marks of stratification By an examination of the materials of these deposits, it will be observed that the rocks and minerals of which the fragments are composed do not belong to their present sites, being different in their characters from any of the strata of which the island is composed. Their origin and situation may therefore be properly ascribed to the same causes that transported the erratic boulders The melting of large masses of stranded are loaded with gravel and sand, leaves mounds and elevations upon the present shores, and the hills of unstratified diluvial detritus may therefore be accounted for by referring them to the melting of stranded ice during the boulder period. The appearance of such deposits would be much modified by the operations of currents of water, which have evidently opened many valleys, and spread the gravel out in strata

"Another kind of diluvium is composed of pieces of red sandstone, red sandstone and clay, which in general repose upon the solid strata beneath. debras has been derived from the red sandstones and shales of the island, and affords a more fertile soil than the imported variety It is frequently mixed with the foreign drift, beneath which its principal beds are situated"

Climate.—All who have ever visited the island can bear testimony to the salubrity of its climate, which is neither so cold in winter nor so hot in summer as that of Lower Canada, while it is free from the fogs which spread along the shores of Cape Breton and Nova Scotia. One hundred years of age, without ever knowing a day's sickness, 18 frequent in the island; the air is dry and bracing: the diseases of the North American continent are unknown, and puny British emigrants attain, soon after their arrival, robust health and unwonted strength. No person ever saw an intermittent fever produced on the island—pulmonary consumption, so frequent in north and central America, is seldom met with—the greater proportion of the colonists live to old age, 90 to 100, and then die by a gradual decay of nature; deaths between twenty and fifty are very rare—accidents even included. has been estimated that not one person in fifty inhabitants dies throughout the year; industry always secures a comfortable subsistence, and encourages early marriages; the women are often grandmothers at forty, and the mother and her daughters may each be seen with a child at the breast at the same Such is the happy condition of this simple and hospitable people, whose prospects are so far superior to that of their less fortunate brethren in England.

Mr S. S. Hill, in his interesting "Short Account of Prince Edward Island," thus describes the climate:—

"The climate of Prince Edward Island is highly favourable to the pursuits of agriculture from that of England in the winter more than at any other season. The unwholesome and damp chills of an English winter are unknown in the island, and the diseases which a moist atmosphere originates, are uncommon at any time The cold is more severe, and endures for a longer period; so that for about four months, all agricultural pursuits, properly so called, are of necessity suspended. But this is not of so much moment as to materially affect those interests which are connected with the soil; for the winter is both shorter and less severe in the island, than in those countries on the Baltic which export agricultural produce, and whose inhabitants are for the most part engaged in the rural occupations. The days too are considerably longer at that season in the island, than in those countries, which is material, both as to health and to labour.

"In the beginning of June, the summer bursts forth; and the natural forest, presenting to the eye every variety of vegetation, and filling the air with the fragrant perfumes of the native herbs of the island, gives abundant evidence of the fertility of the soil; and at the same time affords an opportunity for the lovers of nature to gratify their enthusiasm, or indulge their taste for contemplative enjoyment. The brilliancy of a summer night in the vicinity of the bays, cannot be surpassed by that which the finest chmates under heaven exhibit. The wind is usually still, and the smooth surface of the water reflects the splendid lights of the firmament; and wherever the current runs, the fishes are heard sporting in the stream, and on the shore, whole acres are sometimes illuminated by the fire-flies, which emit flashes of light as they sport in the air; and now and then a torch is seen displayed at the bow of the canoe of some Indian engaged in spearing the eels.
"From this time, until the middle or the end o

"From this time, until the middle or the end o' September, the climate resembles that of the southern coast of England The thermometer, occasionally during calm weather, shows a greater degree of heat than we experience in this country; but the sea

breeze seldom fails to lower the temperature, by the time the sun reaches the zentth, so that no inconvenience thence arsses But during the prevalence of the south-west winds, throughout the greater part of July, August, and September, the thermometer stands pretty steadily at from 75° to 80° of Fahrenheit during the mid-hours of the day, and, at night, the air is soft, wholesome, and agreeable

"The has harvest commences about the middle of July; and the white crops are usually cut between he middle and the last of August About the middle of September the evenings begin to get cool, and the autumn properly commences Nothing can exceed the beauty or the healthness of this season of the year The atmosphere is exceedingly ranfied, and the deep azure of the clear sky reflects a darker shade upon the waters; while the forests, as they change from the rich green of summer to the thousand autumnal tints which the variety of their kinds exhibit, present scenery unsurpassed in beauty, or in the hopes of future plenty which they inspire, by any

thing to be met with in the old or new world
"The Aurora Borealis, though common at all
times of the year, is, during the early part of autumn,
more splendid than at any other season. It sometimes appears like the reflection of the lights of this
great metropolis upon the sky, when seen from a distance upon a clear night; but it often covers the
whole compass of heaven, and in red, blue, green,
and yellow streams, illumines the wide expanse; and
changing its colours as it continually flashes across
the filmament, presents a spectacle unrivalled by any
other phenomenon which nature anywhere displays"

Population —We have no correct estimate of the progressive increase of the population, when taken from the French the island is supposed to have contained 6,000 Acadians. a great number of whom were afterwards removed. In 1802 the number of inhabitants was-males, 10,644; females, 10,007, total, 20,651 · m 1822, males, 12,140, females, 12,460; total, 24,600. in 1825, males, 14,140; females, 14,460; total 28,600 in 1827. males, 11,976; females, 11,290, total, 23,266: in 1833, males, 16,840, females, 15,452; total, 32,292. In 1841, total population, 47,034, in 1849-50, about 55.000. Scotchmen form more than onehalf of the whole population The Acadian French are estimated at 5,000; but of the Mic-mac, or native Indians, there are probably not more than thirty families on the In 1841, the natives of England amounted to 2,650; of Scotland, 5,681; of Ireland, 5,193, of the British colonies, 1,755; of other countries, 194; and of Prince Edward Island, 31,561. Persons in connection with the church of England, 5,707; with the church of Scotland, 10,006; with presbyterians of Prince Edward Island, 5,089; with church of Rome, 20,430; methodists, 3,421; baptists, 1,609, other denominations, 772. The following complete census in 1841 shows in detail the state of the island :-

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Census of the Population of Prince Edward Island, taken in the Year 1841, under the authority of the Act of 4th Victoria, Cap 5.

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LAND IN CULTIVATION, AGRICULTURAL PRODUCE, CATTLE, &c. 287

Statistical Return of Prince Edward Island, taken in the Year 1841, under the authority of the Act of 4th Victoria, Cap 5.

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orty-five Forty-six	2563 1728	400 1042	360		7571 1539	50	1725 878	941 642	2612 1794	6117	45,967 26,415	85	371	692	374		1	
orty-seven	9459				3714	102	2793	2085 2801	5100	17,447	57,603	248 184	1013	2032	1102	2	3	
Forty-eight Forty-nine	2848 6405	8459 5423	140	65 187	131 4691	147	4230	4147	2340	15,379 20,845	60,746 84,676	271	1164	1616	865	4	i	1
Fifty	7495	6684	100	310	235	137	3551	3774	1767 233	17,318	68,376	236	1243 325	1960	814 293	1		
ifty-one .	2985 1850	300 420		2640 675	950 2597	61 49	850 891	912 750	422	2271 2834	20,624 19,385	74	323	410	315	1	i	1
ifty-three	1334	2050		1752	200	89	1154	1384	851	5022	25,540	98	438	806	391			
hifty-four	1605 9546	250 50	•	100	2851 50	19	513 1203	1374	256 1829	2336 7781	87,520	42 138	246 782	298 1055	214 524	1	i	1
ifty-six	700	5691		250	200	63	1407	1286	1009	6168	37,220	142	556	929	594	ا ا		
Fifty-seven . Fifty-eight	8672 5454	10,872 1550	50	211 150	90 650	795	4466 2083	2457 1090	1801 784	23,113	63,760 27,670	250 131	1273 511	2333 968	852 355	1	3	
Fifty-nine	1598	1488	160	129	364	95	906	1143	580	4437	18,550	94	333	497	825		1	
Sixty Sixty-one	3795 1220	1285 1878	200 280	150	466	240	1438 767	931 1155	340 745	6628 3797	17,690 17,343	85 72	335 254	723 479	231 833		1	•
sixty-two	1998	3687		840	1165	257	1555	664	596	5674	20,540	94	365	678	272	ا. ا	1	П
Sixty-three .	1335 2402	1237 2883	106	50	970	76 184	857 1450	1485 1544	1892 808	4564 4184	22,500 40,510	133	265 446	422 1139	151 348	1 2	3	1
outy-four	4129	2888 5596	775 1679	3218	8285 600	363	3509	3608	1739	11,087	45,734	209	713	1660	555	17	1	1
sixty-six	6354	100	400	1400	2430	19 268	232 924	157	38 201	622 4841	4930 13,710	15 51	95 424	72 538	96 303		1	1
Total		228,273			60.199						2,153,899			70,588		67	100	7
Charlottetown	6516			182	1 30,.33	1 1	8497	4166	1712	15,320	55,198	355	880	1512	891	_	13	4
do Royalty	1	602		182			0.00	1		1 ' 1		1				1 1		1
deorgetown do Royalty	694	60		150	27	67	462	504	282	3279	12,692	66	262	434	312	8	1	H
Princeton	3447			1	32	20	2124	2785	1109	9312	20,030	146	538	785	417	1	2	ı
do Royalty Boughton Island	,			435	8	4	108	243	147	345	4225	13	44	104	104			
Panmure Island	700		١.	-30	, ,	5	116	130	158	1200 200	1500 900	5	24 18	94 40	24 10	L)	1	١.
Rustico Island . St Peter Island		600			300		44	60 90	20 24	200 165	1400	9	26	86	29	ó		1
Governor Island		60	١.			8	12		1 2	20	70		2					1
			1	1	25	1 4	1	10	1	6	150	1	_ 2		. 1	•1		1
Murray Island .			-		-	-					2,250,114		41.914		35,52		1	J.

has its own heutenant-governor, council, and newspapers, efficiently conducted. of a chief justice. The laws are English.

2 heutenant-colonels, 13 majors, 120 cap- telling, and honesty enforced. 12 adjutants. The total force, officers and answered well, and is worthy of imitation. men, 18 7302. There are four troops of 11 guns in Charlotte town; Kent battery of 4 guns on the government house ground, harbour, and a block house with 4 guns.

Religion.—Prince Edward Island is in the diocese of Halifax. There are six clergymen of the established church, of whom five are paid by the London "Society for Propagating the Gospel in Foreign Parts." The rector at Charlotte town receives from the Treasury £100 per annum, £100 a-year from the London Society for Propagating the Gospel, £360 a-year as garrison chaplain, £70 a-year for a house from his parishioners, and surplice fees. Churches are building in different parishes. are no parsonage houses, and the glebes have been sold and devoted to education The number of people professing different forms of religion, and the number of churches or temples of worship in each township are shown in the statistical table at page 287.

Education is promoted by a central academy at Charlotte town, which has 90 male pupils, a national school, with 30 male and 10 female pupils; and 110 district schools in different districts, which cost the colonial government about £1,000 a-year. Three school visitors superintend the district schools, one for each county, and report

GOVERNMENT.—Prince Edward's Island annually to the legislature. There are two House of Assembly, constituted after the infant schools were established in 1842 at manner described in the preceding colonies; Charlotte town, George town, and St. it is perfectly independent of the governor- Eleanors, chiefly through the exertions and general at Quebec in the civil administra- pecuniary aid given by Captain Orlebar, of tion of its affairs; its military are under the the Royal Navy, who was employed upon the control of the Nova Scotia Commander of survey of the island. The master and misthe Forces. The executive consists generally tress, Mr. and Mrs. Hubbard, were trained of mine, and the legislature of six members, at the Gray's Inn Road Institute, London, appointed by the mandamus of the sovereign: and a committee of ladies, communicants of and the Assembly comprises twenty-four the Church of England, are entrusted with members, elected by the people as in the the supervision. Instruction is given to 100 other North American colonies. The form children of ages varying from three to ten of procedure is that of the British Parlia-ment. There is a Court of Chancery regu-amounted to 530. The schools were devised lated after that at Westminster, over which for the benefit of the poor, and the scale of the governor presides—and the jurispru- charges was two-pence a-week for children dence of the colony is under the direction above six years of age, and three half-pence for younger children. The Bible is read Multary Defences -The militia includes daily, hymns sung, and cleanliness, truth-A library tains, 137 heutenants, 118 ensigns, and is attached to each school. The system has

Crime—in 1847. In prison, felons 3 cavalry, a detachment of artillery, and three tried, 2 untried. Debtors, whites, males 60; regiments of infantry. The military defemales, 3; blacks, 2. Total number in fences comprise the St. George's battery of confinement at Michaelmas, of all classes,

Finance — The first revenue attempted to York battery at the west entrance of the be levied for the support of the government, as before stated, was the quit-rents-these failing in their extent, a parliamentary grant was applied for and obtained. In 1821 the revenue collected was £2,052; m 1826, £4,935, in 1836, £8,887; in 1846, £17,279.

Items of Revenue.	1846	1847
Impost on wines and spirits by permanent colonial enact- ment	£1,189	£1,839
Ditto by annual colonial enact- ment on wines and spirits, and an ad valorem on certain goods and wares	9,816	14,958
Land assessment	1,600	1,824
Spirit licenses	202	309
Tonnage duty	316	303
Post office	624	933
Rent of Warren farm	25	25
Wharfage, Charlotte town	175	178
Interest on bonded duties	273	121
Colonial secretary's fees	119	142
Her Majesty's customs	1,734	1,416
Incidental receipts	196	303
Crown land sales	512	201
Surplus money of sales	I —	
Under land assessment act	480	
Immigrant tax	_	79
Total	17,261	22,63

From 1836 to 1848, the annual parliamentary grant was £3,070. The sum voted for the year 1849 was £2,000,—namely, £1,500 for the salary of the governor, and £500 pension to C. D. Smith, Esq., which was granted in 1824. The island will probably soon defray entirely its civil expenditure.

The Expenditure of Prince Edward Island was, in 1828, £6,749; in 1836, £16,477; exported are not included in this sum of in 1847, £21,574; and in 1848, £ The civil establishment costs about £5.200: roads, bridges, and wharfs, £2,600 to £3,200; public buildings, £2,000; House of Assembly, £1,500; legislative council, £500, schools, £1,000; interest on outstanding 18,445. The vessels registered in the island warrants, £1,500; seed, grain, &c. to destitute settlers, £2,500; sheriff and gaol expenses, £300; printing and stationery, £330; lunatic and indigent persons, £280; coroner's inquest, £60; and various other items.

Paper Currency.—£11,650, issued by the government; and about £10,000 issued by with different countries is thus shown for banks in the neighbouring provinces.

Coin in circulation -About £20,000. Weights and Measures -According to the

standard of England.

Commerce.—In 1827, the total value of the imports was about £27,000, and the exports about £18,000. The imports in 1847 were valued at £143,647, and the exports at £71,228. The shipping built and £71,228. In 1846, eighty-two vessels were built in Prince Edward Island, whose tonnage was 12,012; and the value, at £5 to £6 per ton, would be about £66,000. In 1847, there were built 96 vessels; tonnage, in 1844 were, under 50 tons—number, 147; tons, 4,056: 50 tons and upwards-number, 90, tons, 9,805. The imports consist chiefly of manufactured goods, and the exports, of grain, potatoes, timber, fish, and ships.

The trade of Prince Edward Island

1847:-

		Imports fi	rom				Exporte t	0	
Ports.	Great Briti Britain Indi	st North	Foreign Countries	Total	Great Britain	British West Indies	British North America	Foreign countries.	Total
Charlotte town Three Rivers	£48,803 £26	7 £50,943 15,069	£6,375 690	£106,390 17,305			£15,465 4.217	£496 325	£33,475 14,446
Bedeque .	30	2,388	000	2 418			4.922	020	5,705
Cascumpec .	0	339		339		l	1,737		2,147
Malpeque .	6,833	2,154		8,987			6,305		9,537
Colville Bay	0	6,205		8,215	468	i.	5,417		5,896
Total	£57,213 £26	7 £79,101	£7,065	£143,654	£32,196	£249	£38,063	£821	£71,226

at the port of Charlotte town, are—£16,894 of dry goods; £4,589 of hardware; £5,698 of cordage; £4,126 of iron; £12,528 of 10s; brandy, 12s; beer, 1s., per gallon; sundres. Among the exports to Great Britain, are-oats, 96,177 bushels; value, £5,322, timber, 4,769 tons, £3,991; deals, 1,197,902 feet, £2,836. The imports and exports of the other ports, as to trade with Great Britain, are in the same proportion.

Manufactures.—There has been recently established at Charlotte town an iron-foundry, and there is an establishment for drying, fulling, and dressing cloth at the same place. Linens and flannels are made for domestic use; and the colonists tan and

dress, leather.

Prices.—Wheat, 8s.; barley, 2s. 9d.; oats, 1s. 9d.; potatoes, 2s 6d., per bushel; hay, per ton, £3 to £3 10s., wheaten bread, per sheep; they are not subject to the rot, or lb., 4d.; horned cattle, £5; horses, £15; any disease common to sheep in this country: sheep, 12s.; swine, £1; butter, per lb., 1s.; they are small, but of excellent flavour; the

Among the imports from Great Britain, milk, per quart, 4d; cheese, 7d; beef, 4d.; mutton, 3d., pork, $3\frac{1}{2}d$; coffee, 1s.; tea, 4s.; sugar, 6d; salt, 1d., per 1b.; wine, tobacco, per lb , 1s

Wages.—Domestic, £16 per annum.

Prince Edward Island is essentially an agricultural colony, and admirably adapted for industrious emigrants with small capitals Crop after crop of wheat is raised without manuring; the barley is excellent, and oats much superior to any other of American growth; the potatoes and turnips cannot be exceeded anywhere; and peas and beans are equally good. Cabbage, carrots, and parsnips are produced as good as any in England; in fact, all the produce of English gardens will thrive here equally well.

The climate is particularly favourable to

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common size is about 60 pounds the car-times weigh 300 pounds. Sturgeons are case.

barrel up a quantity for occasional use. The pickled, 967 barrels. lobsters are in great abundance, and very called by the islanders eel-grass, and a been greater changes of fortune. might fill a bushel basket in half an hour procured, is of great assistance to the inhanumbers of wild geese, ducks, and other water fowl visit the island.

The fisheries of Prince Edward Island have not been sufficiently attended to. The herring fishery is of great importance it commences early in the spring, when the bays and harbours, particularly on the north side of the island, are no sooner clear of ice, than they are filled with immense shoals of those fish, which may be taken in any quantity: they are larger, though not so fat, generally, as those taken off the western coasts of Ireland and Scotland, and partake more of the character of the Swedish herring. Alewives, or gaspereau, although not so plentiful as the herring, appear in large quantities. Mackerel are in great abundance on the coast and in the harbours, from June to November. Cod are taken St. Lawrence, more particularly on the coast hoped that the parishes of England wil of Prince Edward Island, the bay of Chaare found everywhere extremely fine, and and for the employment of their able-bodies often very large: the halibut caught some- poor.

common in the summer months in all the The rivers abound with trout, eels, mac- harbours, some measuring six to seven feet kerel, flounders, oysters, and lobsters, and in length. Perch are found in the rivers some salmon; and the coast with cod-fish and ponds that have a communication with and herrings in great abundance. The the sea. Indeed, if the fisheries of this fine latter, soon after the ice breaks away in the island were more attended to, they would spring, rush into the harbours on the north add much to the value of property, while side of the island in immense shoals, are their pursuit would stimulate the progress taken by the inhabitants, in small nets, with of agriculture and the colonization of the very little trouble; and, as salt is cheap settlement. In 1847, the quantity of dry (not being subject to duty), most families fish exported was 7,440 quintals; and of

The island could support with ease ten large and fine. In Europe, this kind of times its present population, as almost the shell-fish is only taken on the sea-coast whole area is capable of cultivation, and the amongst rocks; at Prince Edward Island augmentation of its commerce and revenue they are taken in the rivers and on shallows, shews the prosperous state of the colony. where they feed on a kind of sea-weed, Dr. Gesner says, "In few places have there person wading into the water half-leg deep duals of wealth and respectability, by misguided speculations, have been reduced to Many schooners are annually laden with poverty; and persons without education, oysters for Quebec and Newfoundland. The capital, or experience, have rapidly risen to plenty of fish, and the ease with which it is affluence. A person who, a few years ago, came from England in the capacity of a bitants, and in particular to new settlers, cook, was employed in a ship-yard, and rebefore they have time to raise food from the cently his former master was among the produce of the land. Hares and partridges number of his servants. He now owns exare plenty, and are free for any person to tensive tracts of land, farms, mills of differkill, and in the spring and autumn great ent kinds, and a great variety of other property. During the past year he has built no less than ten ships, and loaded them with timber for Great Britain. He is a man of influence, and has several times been elected a member of the House of Assembly. There are not thirty words in his whole vocabulary, yet all his savings and doings are characterised by sound sense and correct judgment"

The former custom of granting leases of land for 999 years, at an annual rent varying from one to two shillings per acre, still prevails; for the first, second, and third years no rent is required—then three-pence per acre, and this sum is annually increased until the maximum of two shillings is attained. Proprietors are reducing the term to 99 years, which is reasonable. When land may be thus obtained in the British Empire on such low terms, capable of yieldextensively in every part of the Gulf of ing all the necessaries of life, it is to be avail themselves of such means to provide leur, and in the straits of Belleisle. Trout permanently for the relief of the rate-payers

BOOK V.—NEWFOUNDLAND AND LABRADOR.

CHAPTER I.

GEOGRAPHICAL POSITION, AREA, AND HISTORY.

THE island of Newfoundland is situated on Dutch gold, considered to be old Flemish the N.E side of the main entrance to the coins, others of copper, without inscriptions. Gulf of St Lawrence, between 46° 40' and 51° 39' N. lat., and between 52° 44' and Royal Geographical Society, doubts are en-59° 31' W. long. It is divided from the tertained of the antiquity of the buildings, coast of Labrador on the N and NE. by the straits of Belle Isle (which do not exceed be probably of no more ancient date than 12 miles in width, and offer a difficult and the settlement of Lord Baltimore, but the circuitous passage into the Gulf:) its southwestern extremity approaches within 50 miles of Cape Breton, and on the N.W the Gulf of St. Lawrence separates it from the limits of the present work Canada. Newfoundland is the nearest to fore, pass on to the re-discovery of the Europe of any part of America; the dis-island by Cabot, who, having obtained a tance from St John's, in Newfoundland, to commission from Henry VII. during his Port Valentia, on the west coast of Ireland, first voyage in 1497, observed a headland, being 1,656 miles Bouchette states its ex- which he called Prima Vista treme length, measured on a curve, from at little short of 1,000 miles Its area comprises about 36,000 square miles

found different European coins, some of the voyage of Verrazano, in 1525, on which

According to a paper furnished to the which are supposed by Captain Robinson to finding of coins of virgin gold is not questioned. This, however, is a matter of antiquarian research, which does not come within

"It has been conjectured by some," says Cape Race to Grignet Bay, at 419 miles, lieutenant-colonel Sir Richard Bonnycastle, its extreme width, from Cape Ray to Cape in his valuable work, entitled Newfoundland Bonavista, at about 300 miles, and its circuit in 1812, "that Cabot must have meant Labrador as the place of his discovery, because there are no white bears" (mentioned by HISTORY.—According to tradition (sup- Cabot in the brief account of his voyage, ported, it would appear, by historical evi- written by him on a map, which was depodence of considerable weight) the island sited in the Privy Gallery at Whitehall,) was discovered by Biarne, or Biorn, a sea "in Newfoundland. This, I apprehend, is king, or pirate of Ireland, who, being driven false reasoning. There is a place even on thither by contrary winds, is said to have the south coast called White Bear Bay, and taken shelter near Port Grace harbour, it is quite probable that the polar bear has, about the year 1,000. Robertson and Pink- like the walrus or sea-horse, been driven erton were of opinion, that Newfoundland away by the increasing fisheries" Howwas first colomized by the Norwegians. Some ever this may be, it certainly was discovered years ago, a party of settlers, proceeding up by Cabot in this voyage, and, on that aca river which falls into Conception Bay, count, ever after claimed by Britain. In observed at a distance of six or seven miles 1550, the new-found island was visited by from the bay the appearance of stone walls Cortereal, who, after giving Conception Bay rising above the surface. On removing the the name it still bears, sailed along the coast sand and alluvial earth, they ascertained of Northern America, then called Baccalaos, these to be the remains of ancient buildings, from an Indian word signifying cod-fish. with oak beams, and millstones sunk in The fisherics of Newfoundland speedily drew oaken beds; inclosures resembling gardens attention, and the crew of an English ship. were also traced out, and plants of various on returning home, stated that they had kinds, not indigenous to the island, were left 40 vessels,-Portuguese, French, and growing around. Among the ruins were Spanish, engaged therein. The details of

the French founded their claim to New- world. foundland and the adjacent provinces, are Hind alone reached England, and she was a exceedingly vague. In 1534, Jacques Car- mere wreck."—(See Bonnycastle's Newtier arrived at Cape Bonavista, and, on his foundland in 1842, and Hackluyt, page 679.) return to France, was most favourably received. An expedition was fitted out, under a voyage was made to Newfoundland by Sir his direction, in the following year, whose success has been already mentioned at the commencement of the history of Canada. About this time several attempts were made by England to colonize Newfoundland. to resort to the most loathsome expedients, with a French ship laden with provisions, which they seized, and brought to England His reply is characteristic of the is far less favourable The alone retaining his self-possession. Golden Hind kept as near the Little Squir- he held friendly intercourse. rel and her brave admiral as the perilous mountains of water would permit, and the crew, in their dismay, saw him sitting and calmly reading on the deck, and heard him bid them be of good cheer, 'for,' said he, 'we are as near to heaven by sea as by land.' At night the blackness of darkness fell upon the ocean, the lights in the Squirrel suddenly disappeared, and this is all that will ever be chronicled of the fate of one of the establish order, investigate the abuses combravest of the adventurers who sought, in the glorious reign of Elizabeth, to extend flagrant dishonesty too generally manifested. the dominion of England in the western Immediately on his arrival he held a court,

Of all the armament the Golden

In 1585, according to our next accounts, Bernard Drake, who claimed its sovereignty and fishery in the name of Queen Elizabeth. Sir Bernard seized several Portuguese ships laden with fish, and oil, and furs, and returned to England; but, owing to the war "Master Robert Hore," a merchant of Lon- with Spain, and the alarm caused by the don, "with divers other gentlemen," sailed Spanish armada, several years elapsed before in 1536, thinking to winter there; but the another voyage was made to the island. An crew were nearly starved to death, compelled effort for its colonization was made in 1610. in virtue of a patent granted by James I. and would have perished had they not met to the Lord Chancellor Bacon, Lord Verulam, the Earl of Northampton, Lord Chief Baron Tanfield, Sir John Doddridge, and Henry VIII of England satisfied the French forty other persons, under the designation claim for indemnity by paying for the seized of the "Treasurer and Company of Adven-The expedition, in 1583 of Sir turers and Planters of the Cities of London Humphrey Gilbert, the half-brother of Sir and Bristol for the Colony of Newfound-Walter Raleigh, has been already recounted, land." The patent granted the lands between (see page 3, Vol. I) but the following Capes St Mary and Bonavista, with the detail respecting the death of the gallant seas and islands lying within ten leagues of adventurer may not be unacceptable - "Sir the coast, for the purpose of securing for Humphrey, on his return from surveying ever the trade of fishing to British subjects. the coast in the Little Squirrel, learned the Mr. Guy, an intelligent and enterprising wreck of the Delight from those who had merchant of Bristol, who planned this expeescaped. He then reluctantly made preparation, settled in Conception Bay, remained rations for crossing the ocean, declaring there two years, and then returned to Engthat he 'would fit out an expedition royally, land, leaving the colony (of whose capacities and return next spring' He was strongly he had given a somewhat exaggerated descripurged to quit the nut-shell in which he had, tion in his letters home), in charge of William embarked, and go on board the Golden Colston, whose report concerning the island Twenty-five of the brother-in-law of Raleigh, 'I will not for- settlers were seized with scurvy, six of whom sake my little company, with whom I have died, the rest had recovered, it is stated, by passed so many storms and perils.' They using turnips. Guy went back in the sumreached the Azores in safety, but there mer of 1812, and exerted himself successencountered a storm of so terrible a nature fully in the arrangement of the colony He that it quailed their hearts, Sir Humphrey undertook a survey of the coast, and met with two canoes of Red Indians, with whom From this period little is known of him; he appears to have subsequently abandoned the settlement. which, deprived of his energy and example, soon languished.

In 1615, Captain Whitbourne, a contemporary of Sir Humphrey Gilbert and Sir Bernard Drake, who had himself made many voyages to Newfoundland, was sent there with a commission from the admiralty, to plained of by the fishermen, and repress the at which one hundred and seventy masters and prosperity but for the unjustifiable line of vessels submitted themselves to his jurisdiction, and he endeavoured to empannel juries in the most frequented harbours. Two years from this period, Whitbourne was appointed chief of a body of Welshmen, dispatched by Doctor Vaughan to form a settlement called Cambriol (now Little Britain) in the south part of the island, on land purchased from the patentees. The first effort, however, which can be said to have been attended with permanent success, was that made in 1623 by Sir George Calvert, afterwards Lord Baltimore, who having obtained the grant of a considerable tract between Cape St. Mary and the Bay of Bulls (corruptly so called from the French name, "Baie des Boules,") determined upon establishing himself there with a number of his countrymen, who, with him, belonged to the church of Rome The settlers fixed their head-quarters at Ferriland, where Lord Baltimore built a strong fort and good house, in which he resided until about twenty years from the first foundation of the settlement, which he called Avalon, from the ancient name of Glastonbury, where Christianity was first preached in Britain. At the expiration of this period his lordship returned to England, and through the favour of Charles I. founded a colony on the shores of Maryland. from which arose the fine city which bears his name. Another colony was sent to heutenant Cary, Lord Falkland In 1635, the king granted permission to the French to cure and dry fish, on condition of their paying five per cent. of the produce \mathbf{In} 1660 they formed a settlement in the Bay of Placentia, which they long continued to occupy. In 1654, Sir David Kirk, having obtained from parliament a grant of land, proceeded thither with a few settlers, notwithstanding the continual bickering between the British and the French, who had established a colony at Placentia, the British population had increased to about 350 famidocument issued by Charles I., and directed foundland.

of conduct pursued by the board of trade and plantations, to which they were instigated by the selfish jealousy of the parties by whom the fisheries were carried on. In 1670 Sir Josiah Child, the principal person connected with them, published a pamphlet to prove that the cod fishery had declined since 1605, which he stated then employed 250 vessels, and did not now engage above 80. He imputed this decrease to the boat fishery carried on by the inhabitants along the coast, and he urged that if they were permitted to multiply, they could carry on the whole fishery, and the nursery of seamen be thus destroyed. He therefore advised not only the forcible prevention of any further immigration taking place in Newfoundland, but urged the remedy of dis-To the calm and dispassionate planting. reader it must appear barely credible that such a suggestion could be for a moment entertained, much less acted upon by a British government, yet this was actually In the year 1667 the residents the case had applied for a governor, but their request had been set aside in consequence of its being violently opposed by the English merchants, in 1674 they renewed their application, which was rejected, and Sir John Berry was sent out with orders for the deportation of the settlers, the destruction of their houses, and in fact the entire uprooting Newfoundland from Ireland by its then lord of the thriving colony which had been reared at the heavy cost of the energies, treasure, and even life-blood, of several of England's best and bravest sons Happily for the wretched people, Sir John Berry was a man of humane character, and while mitigating as far as lay in his power his cruel commission, he sent home strong remonstances against the misery which he was reluctantly compelled to occasion. In 1676, Mr. Downing, one of the residents, obtained an order from the king, to prevent any further persecution, accompanied however by strict injunctions, forbidding any vessel to take out lies. In 1663 we find a very interesting emigrants, or any person to settle in New-Complaints constantly assailed to the Lord Treasurer and others, desiring the government that these laws were evaded; them "to erect a common fishery as a representations were made on one side and nursery for seamen," and containing the counter-representations on the other, but no first regulations for the "governing of his further rigorous measures appear to have majesty's subjects inhabiting in Newfound- been taken, and in 1697 the board of trade land, or trafficking in bays." In this year published a report, stating that a number of the British fisheries were exempted entirely inhabitants, not exceeding one thousand, from tax or toll, and the island would doubt- might be usefully employed in constructing less have rapidly increased in population boats, stages for drying the fish, and other

of Britain being set forth as follows:-"That of late the incroachments of the French upon Newfoundland, and his majesty's subjects' trade and fishery there, had been more like the invasions of an enemy than becoming friends, who enjoyed the advantages of that trade only by permission" The French on their part avowed their desire to attain exclusive possession of the In September, 1692, commander Williams attacked Placentia, but owing to the spirited defence of the French governor, the expedition succeeded only in burning the works on Point Vesti. On the other hand Chevalier Nesmond, in 1696 arrived with a squadron, and aided by the force on harbour of St John, but having failed he returned to France. Before the close of the year the French were more successful, for another squadron arriving under Brouillan, he in concert with Ibberville the French commander, attacked St John, which being now short of military stores, and in a very defenceless state, was compelled to surrender. upon which the town and fort were set on fire, and the garrison sent on parole to England

nothing further in consequence of a misunderstanding with Ibberville, who commanded the troops, proceeded to destroy by fire and the sword all the British stations, excepting those at Bonavista and Carbonier (on Conception Bay), where he was successfully resisted by the settlers; he then returned to Placentia. "The dogs of war" seemed now fairly let loose on the unhappy island, whose possession both France and England showed themselves resolved to contest to the utter-A British squadron, with 1,500 men on board, was dispatched, under the command of admiral Nevil and Sir John Gibson, but owing to the cowardice of one commander and the ignorance of the other, nothing was effected to retrieve the disastrous position of affairs, until the peace of Ryswick, in 1698, put an end to hostilities, and replaced matters, as far as possible, in the position they were in prior to the war. Several acts of parliament were passed, regulating the fisheries (now declared free to all his majesty's subjects) and the importation of fish, taken by foreigners in

matters connected with the fisheries. On the and misrule which had now reached an accession of William III., war broke out alarming height, by directing that the master with France, one of the causes on the part of the first ship arriving at any station, should receive the title of admiral for the season, and the second and third those of rear and vice-admirals, and that they should be invested with a certain jurisdiction over the seamen and fishermen. of the shifting and irresponsible tribunal thus established proved very unsatisfactory, for the judges, notwithstanding their high-sounding titles, were repeatedly bribed by presents of fish to give false decisions, as might have been expected from the general laxity which had long prevailed. The brief interval of peace was very differently employed by the rival nations. The French wisely encouraged colonization, and gradually occupied the most important positions the island, made a descent on the town and in Newfoundland; the English continued to discourage it, and speedily experienced the effects of their misjudged policy, since, in the war which began in 1702, Newfoundland (in the words of Sir Richard Bonnycastle) "instead of having a hardy native population to resist or overwhelm their ambitious and restless neighbours, had to depend on the occasional presence of ships of war." On the declaration of the famous "war of the succession," Sir John Leake The French admiral appears to have done was immediately dispatched by Queen Anne with a small squadron, to take possession of the whole island, which he failed in doing, although he succeeded in destroying several French settlements and capturing a number of vessels, with which he returned to Eng. land at the close of the year. In August, 1703, admiral Graydon was sent with a fresh fleet off the coast of Newfoundland, but owing to a fog, which continued with great density for thirty days, his ships were dispersed, and could not be brought together till the 3rd of September. He then called a council of war, as to the practicability of attacking the strong-hold of the French, at Placentia, and it was decided that it would not be prudent to do so with the force at his disposal; on which he returned to England, where his conduct was severely censured. In 1705 the garrison of Placentia, reinforced by 500 men from Canada, attacked the British colonists, and attempted to become sole masters of the island by attacking the harbour of St. John's, where they were repulsed, but they succeeded in gaining possession of several settlements, destroyed foreign ships, was strictly prohibited. An Fort Forillon, and spread their ravages as attempt was made to remedy the disorder far north as Bonavista. In 1706, the British

again expelled them from their recent con- though they also were actively engaged in quests, and Captain Underdown, with only carrying on the fisheries. In spite of every Although parliament earnestly entreated the queen to "use her royal endeavours to recover and preserve the ancient possessions, trade, and fisheries of Newfoundland," little attention was paid to their urgent address. the whole disposable force being assigned to the Duke of Marlborough, at that time in the midst of his victorious career. French, however, notwithstanding their repeated disasters on the continent, still found lessure to persevere in their endeayours for the expulsion of the English from Newfoundland, and accordingly St. Ovide. the French commander at Placentia, having effected a landing without being discovered, within five leagues of St. John's, attacked and completely destroyed it, on the 1st of January, 1708.

The French then seized on every English station except Carbonier, which was again

bravely defended by the fishermen.

The news of this misfortune produced great excitement in England, as the possession of the fisheries had ever been considered a point of immense importance, and an expedition was ordered, under Captain G. Martin, and colonel Francis Nicholson, to attempt to dispossess the French, but httle was effected beyond the destruction of a few fishing stations. The British government being fully occupied by the events then taking place on the continent, were unable to take any immediate measures for the were discussed and adopted reignty of Newfoundland and the adjacent of felons in Newfoundland. the eastern side, and Point Riche, on the have lapsed. fifty men on each. ports of Spain and the Mediterranean, al- very defenceless state, of which a French

ten ships, destroyed several of the enemy's disadvantage colonization was making rapid vessels in the harbours along the coast, not- strides, and in 1729, on the representations of withstanding that the French had as many Lord Vere Beauclerk, the naval commander as ten armed vessels on that station stationed at Newfoundland, the island was withdrawn from the nominal administration of the governor of Nova Scotia, and formed into a separate province. Captain Henry Osborne, of H.M.S. Squirrel, was appointed governor and commander-in-chief, but required by his commission to obey the instructions of Lord Vere Beauclerk. He was empowered to appoint justices of the peace and other officers, and copies of Shaw's Practical Justice of the Peace, and of the leading enactments relating to the country, were sent to the eleven principal stations governor was indefatigable in his exertions . he built a jail and court-house, and held his courts of record according to the laws of England, notwithstanding the opposition he encountered from the "fishing admirals," while even from the justices of the peace appointed by himself he did not receive zealous support, as according to chief justice Reeves, "partly from the indifference of some of the justices in their offices, who thought they suffered in their way of trade, and got the ill-will of the people they dealt with, and partly from the incapacity of others, the commissions of the peace were but indifferently executed." The home government at length awakened to the necessity of establishing a regular system of jurisdiction in Newfoundland, would no longer be influenced by the intrigues of an interested and selfish party, and to this end measures recovery of Newfoundland, but at the close court of admiralty was appointed, and in 1751, of the war their brilliant successes enabled much difficulty and expense having arisen them to demand its restitution, which Louis from the local authorities not having the XIV. was no longer in a condition to refuse, power of life and death, Captain Drake, then and by the celebrated treaty of Utrecht, in governor, was directed to appoint commis-1713, Louis conceded the exclusive sove-sioners of Oyer and Terminer for the trial In 1754 Lord islands to Great Britain, but retained for his Baltimore renewed his claim for the tract subjects the right to cure and dry fish on of country called the Province of Avalon, the coast lying between Cape Bonavista, on but the board of trade decided the title to At this period the naval western, and also to occupy the islets of governors (according to Sir R. Bonnycastle) Pierre and Miquelon, with a garrison of usually remained in charge of the ships ap-Of this permission the pointed to protect the fisheries for two or French availed themselves so actively, that three years, going home at the close of in 1721 they employed 400 vessels in the every autumn, and living chiefly afloat. In trade, and not only supplied France with 1765 war recommenced between France and fish, but even rivalled the British in the England, and Newfoundland was left in a

squadron taking advantage, arrived in the Bay of Bulls in 1762, and succeeded in capturing St. John's, Carbonier, and the village of Trinity. Tidings of these disasters were despatched to Lord Colville, the British commander-in-chief, then stationed at Halifax, who lost no time in obeying the summons, and succeeded in dislodging the French, and obliging their Admiral (de Ternay) to make a precipitate retreat. zealous exertions of the colonists, and the decided loyalty manifested by them, deserve especial notice. Two remarkable instances are cited by Sir R. Bonnycastle. gentleman, Mr. Carter, of Ferryland, supported the garrison and inhabitants who had fled from St. John's to the Isle aux Bois, from the 24th of June to the 9th of October. 1762, by procuring provisions and other necessaries, although he could obtain them only with great difficulty, and at an exorbitant price, and Mr. Charles Garland, then a merchant at Carbonier, in Conception Bay, paid, fed, and supported a detachment of men who garrisoned a large battery on an island near the mouth of the harbour, and raised numerous squads of sailors for the temporary use of the fleet. On the 10th of February, 1763, by the famous peace of Paris, France formally yielded Newfoundland with the other American colonies, and England confirmed the thirteenth article of the Treaty of Utrecht, by the fifth and sixth articles of the Peace of Paris, of which articles I subjoin a copy:-

" Treaty of Utrecht, 1713 .- Art. 13 - The island called Newtoundland, with the adjacent islands, shall from this time forward belong of right wholly to Great Britain; and to that end the town and fortress of Placentia, and whatever other places in the said island are in possession of the French, shall be yielded and given up, within seven months from the exchange of the ratifications of this treaty, or sooner, if possible, by the most Christian king, to those who have a commission from the queen of Great Britain for that purpose Nor shall the most Christian king, his heirs and successors, or any of their subjects, at any time hereafter, lay claim to any right to the said island or islands, or to any part of it, or them. Moreover, it shall not be lawful for the subjects of France to fortify any place in the said island of Newfoundland, or to erect any buildings there, besides stages made of boards, and huts necessary and usual for drying fish, or to resort to the said island beyond the time necessary for fishing and drying of fish But it shall be allowed to the subjects of France to catch fish, and to dry them on land, in that part only, and in no other besides that, of the said island of Newfoundland, which stretches from the place called Cape Bonavista to the northern point of the said island, and from thence running down by the western side, reaches as far as the place called Point Riche. But the island called Cape Breton as also all others,

both in the mouth of the river St. Lawrence, and in the gulf of the same name, shall hereafter belong of right to the French; and the most Christian king shall have all manner of liberty to fortify any place or places there."

"Treaty of Paris, 1763.—Art. 5.—The subjects of France shall have the liberty of fishing and drying, on a part of the coasts of the island of Newfoundland, such as it is specified in the 13th article of the treaty of Utrecht: which article is renewed and confirmed by the present treaty (except what relates to the island of Cape Breton, as well as to the other islands and coasts in the mouth and in the Gulf of St. Lawrence;) and his Britannic majesty consents to leave to the subjects of the most Christian king the liberty of fishing in the Gulf of St. Lawrence, on condition that the subjects of France do not exercise the said fisher, but at the distance of three leagues from all the coasts belonging to Great Britain, as well those of the continent as those of the islands situated in the said Gulfof St Lawrence. And as to what reates to the fishery on the coasts of the island of Cape Breton out of the said gulf, the subjects of the most Christian king shall not be permitted to exercise the said fishery but at the distance of fifteen leagues from the coasts of the island of Cape Breton, and the fishery on the coasts of Nova Scotia or Acadia, and everywhere else out of the said gulf, shall remain on

the foot of former treaties."

"Art 6—The King of Great Britain cedes the slands of St Pierre and Miquelon, in full right, to his most Christian majesty, to serve as a shelter to the French fishermen, and his said most Christian majesty engages not to fortify the said islands; to erect no buildings upon them, but merely for the convenience of the fishery, and to keep upon them a

guard of fifty men only for the police."

In 1763, the coast of Labrador was annexed to the government of Newfoundland. Whales and seals were at that time the chief objects of pursuit on the coast, the trade was carried on by sloops and schooners from British America, and yielded a very valuable produce. In 1764, captain, afterwards Sir Hugh Palliser, was sent out as governor, and a collector and comptroller of customs, established at St. John's, and in the following year the navigation laws were extended to Newfoundland, notwithstanding the opposition made by the merchants and fishing adventurers. Sir Hugh, by his energy and love of justice, did much for the colony, and greatly ameliorated the condition of the poor fishermen, whose rights he strenuously main-By his advice an act was passed, commonly called "Sir Hugh Palliser's Act," by which the masters of vessels are compelled. under a heavy penalty, to secure the return of the seamen to England, and to pay them in money instead of in articles of supply. Newfoundland was increasing in population and importance, when it received a severe check from the revolt of the American colonies, who having renounced all commercial intercourse with the mother country, were, after some discussion, excluded from the fisheries. These colonies then furnished Newfoundland with produce to the amount of £350,000 annually, and it was supposed that this intercourse being still left open to them, they would, without doubt, continue to avail themselves of the large profits which This, however, was not the case, their exports were discontinued, and the people of Newfoundland were saved from starvation only by the most strenuous exertions on the part of Britain. Large supplies of food were sent out, and liberal bounties granted to the fisheries. passed in 1775, allowed £40 to the first twenty-five ships, £20 to the next hundred, and £10 to the second hundred, which should land a cargo of fish in Newfoundland before the 15th July, and proceed to the banks for a second lading In 1778, a treaty offensive and defensive between France and the United States was concluded, upon which vice-admiral Montague took possession of St. Pierre and Miquelon, and sent to France 1932 French, whom he found residing there. In 1783, peace was for a brief interval again restored; the following extracts from the treaty of Versailles show the terms agreed upon between the kings of England and France, with regard to Newfoundland and the fisheries:-

Treaty of Versailles, 1783 -Art. 4 "His Majesty the King of Great Britain, is maintained in his right to the island of Newfoundland, and to the adjacent islands, as the whole were assured to him by the thirteenth article of the treaty of Utrecht, excepting the islands of St. Pierre and Miquelon, which are

ceded in full right, by the present treaty, to His most Christian Majesty."

Art. 5. "His Majesty the most Christian King in order to prevent the quariels which have hitherto arisen between the two nations of England and France, consents to renounce the right of fishing, which belongs to him in virtue of the aforesaid article of the treaty of Utrecht, from Cape Bonavista to Cape St. John, situated on the eastern coast of Newfoundland, in 50° North lat.; and his Majesty the King of Great Britain consents, on his part, that the fishery assigned to the subjects of his most Christian Majesty, beginning at the said Cape St. John, passing to the north, and descending by the western coast of the island of Newfoundland, shall extend to the place called Cape Ray, situated in 47° 50' lat.
The French fishermen shall enjoy the fishery which is assigned to them by the present article, as they had the right to enjoy that which was assigned to them by the treaty of Utrecht.

Art. 6, "With regard to the fishery in the Gulf of St. Lewrage the French shall continue to aversion."

St Lawrence, the French shall continue to exercise it, conformably to the fifth article of the treaty of Paris.

Declaration of his Britannic Majesty -1. "The King having entirely agreed with his most Christian Majesty upon the articles of the definite treaty, will

seek every means which shall not only insure the execution thereof, with his accustomed good faith and punctuality, but will beside give, on his part, all pos-sible efficacy to the principles which shall prevent even the least foundation of dispute for the future. To this end, and in order that the fishermen of the two nations may not give cause for daily quarrels, his Britannic Majesty will take the most positive measures for preventing his subjects from interrupting, in any manner, by their competition, the fishery of the French, during the temporary exercise of it which is granted to them upon the coasts of the island of Newfoundland, and he will for this purpose cause the fixed settlements, which shall be formed there, to be removed His Britannic Majesty will give orders that the French fishermen be not incommoded in cutting the wood necessary for the repair of their scaffolds, huts, and fishing vessels.

"The thirteenth article of the treaty of Utrecht, and the method of carrying on the fishery, which has at all times been acknowledged, shall be the plan upon which the fishery shall be carried on there. It shall not be deviated from by either party; the French fishermen building only their scaffolds, confining themselves to the repair of their fishing-vessels, and not wintering there, the subjects of his Britannic Majesty on their part, not molesting in any manner the French fishermen during their fishing, nor in-

jurng their scaffolds during their absence
"The King of Great Britain, in ceding the islands
of St Pierre and Miquelon to France, regards them as ceded for the purpose of serving as a real shelter to the French fishermen, and in full confidence that these possessions will not become an object of jealousy between the two nations; and that the fishery between the said islands and that of Newfoundland * shall be limited to the middle of the channel

" MANCHESTER. "Given at Versailles, the 3rd September, 1783."

Counter Declaration of his most Christian Majesty "The principles which have guided the King in the whole course of the negotiations which preceded the re-establishment of peace must have convinced the King of Great Britain that his Majesty has had no other design than to render it solid and lasting, by preventing as much as possible, in the four quarters of the world, every subject of discussion and quarrel

"The King of Great Britain undoubtedly places too much confidence in the uprightness of his Majesty's intentions, not to rely upon his constant attention to prevent the islands of St. Pierre and Miquelon from becoming an object of jealousy between the

"As to the fishery on the coasts of Newfoundlan', which has been the object of the new arrangements settled by the two sovereigns upon this matter, it is sufficiently ascertained by the fifth article of the treaty of peace signed this day, and by the declaration likewise delivered to-day by his Britannic Majesty's Ambassador Extraordinary and Plenipetentiary; and his Majesty declares that he is fully satisfied on this head

"In regard to the fishery between the island of Newfoundland, and those of St. Pierre and Miquelon, it is not to be carried on by either party but to the middle of the channel; and his majesty will give the most positive orders that the French fishermen shall not go beyond this line. His Majesty is firmly persuaded that the King of Great Britain will give like orders to the English fishermen."
"Given at Versailles, the 3rd September, 1783."

The rights of fishing conceded to the citizens of the United States are clearly specified in the accompanying extract :-

Treaty of 1783 .- Art. 3 "It is agreed that the people of the United States shall continue to enjoy unmolested the right to take fish of every kind on the Grand Bank, and all other Banks of Newfoundland, also in the Gulf of St Lawrence, and at all other places in the sea, where the inhabitants of both countries used at any time heretofore to fish; and also that the inhabitants of the United States shall have hberty to take fish of any kind on such part of the coast of Newfoundland as British fishermen shall use (but not to dry and cure the same on that island), and also in bays and creeks of all other of his Britannic Majesty's dominions in America, and that the American fishermen shall have liberty to dry and cure fish in any of the unsettled bays, harbours, and creeks of Nova Scotia, Magdalen Islands, and Labrador, so long as the same shall remain unsettled, but so soon as the same or either of them shall be settled, it shall not be lawful for the said fishermen to cure and dry fish at such settlements without a previous agreement for that purpose with the inhabitants, proprietors, or possessors of that ground "

In 1785 the resident population of Newfoundland, amounted to 10,244, who had 8,034 acres of land under cultivation, but this increase in numbers, and civilization, only made more evident the inefficiency of the existing system of government, to restrain disorders, redress grievances, and settle the questions respecting the rights to landed property and ship-room, concerning which memorials were continually sent In 1789, admiral Milbanke to England was appointed governor, with authority to form a Court of Common Pleas, which, however, failed to produce the desired effect, and in 1792 a Supreme Court of Judicature was established, with surrogate courts in the principal districts, John Reeves, Esq. being sent out as chief justice. War was again declared between England and France, The British squadron was not only sufficiently strong to protect the fisheries, but also to exclude the other European nations, while the United States had not then the power of entering into any formidable rivalry. In 1814, the exports are said to have risen to £2,831,528. In the same year peace was concluded, and the British government (or rather Lord Castlereagh), notwithstanding the urgent remonstrance of the merchants and others connected with the trade, conceded to France the same privileges which she had possessed previous to the war, by virtue of the following article in the treaty of Paris :--

Treaty of Paris, 1814.—Art. 8 .- "His Britannic majesty, stipulating for himself and his allies, engages to restore to his most Christian majesty, within the term which shall be hereafter fixed, the colonies, fisheries, factories, and establishments of every kind which were possessed by France on the 1st of January, 1792, in the seas, and on the continents of America, Africa, and Asia, with exception, however, of the islands of Tobago and St. Lucie, and the Isle of France and its dependencies, especially Rodrigues and Les Sechelles, which several colonies and pos-sessions his most Christian majesty cedes in full right and sovereignty to his Britannic majesty, and also the portion of St Domingo ceded to France by the treaty of Basle, and which his most Christian majesty restores in full right and sovereignty to his Catholic majesty."

Art 13 - "The French right of fishery upon the Great Bank of Newfoundland, upon the coasts of the island of that name, and of those adjacent islands in the St. Lawrence, shall be replaced upon the footing

in which it stood in 1792,"

In virtue of this treaty, the French set up an exclusive right of fishing on that part of the coast, where they only possessed a con-

current privilege.

Newfoundland suffered a serious diminution, both in the quantity of fish secured, and the price obtained for it, by the severe competition to which the British were immediately subjected, and the contest was rendered very unequal by the large bounties with which the French government supported their subjects, and the encouragement given them in supplying foreign markets. In February, 1816, the capital, St. John, was almost destroyed by fire, and the inhabitants were reduced to extreme distress, relieved only by the prompt assistance of the neighbouring colonies, and of the citizens of Boston, in the United States, by whom they were gratuitously supplied with food The loss is said to have amounted to upwards of £100,000, and 1,500 people were driven, in the most inclement season but this time Newfoundland, instead of of a Newfoundland winter, to seek refuge suffering thereby, received much benefit, on board the shipping in the harbour, and failing that, to find shelter where they could. But the misery of the unfortunate people, rendered the more acute by the brief season of high prosperity which they had enjoyed during the war, had not yet reached the climax. On the 7th of November, in the following year, another calamitous fire broke out in St. John's, by which thirteen merchants' establishments and 140 dwellinghouses were totally consumed. The value of the property thus destroyed (including large supplies of provisions and goods) was estimated at £500,000, and on the 21st of the same month, another fire burnt 56 of the remaining houses down to the ground.

The winter of 1818 is said to have been concurrent right of fishing to which the most unusually severe, and in the midst of English are entitled. Commander Sweetit Admiral Pickmore, the first naval officer land on arriving in St. Croque harbour states who had been directed to remain on the as follows:island during the winter season, expired. being the first of a long succession of administrators, for a period of sixty-eight years, who died in the colony. In the convention with the United States, negotiated during this year, the opportunity was taken not only of confirming but of extending the stipulations with regard to the fisheries, contained in the former treaty. "Whereas." says the convention, "differences arisen respecting the liberty claimed by the United States for the inhabitants thereof, to take, dry, and cure fish on certain coasts, bays, harbours, and creeks of his Britannic Maiesty's dominions in America: it is agreed between the single contracting parties, that the inhabitants of the said United States shall have for ever, in connection with the subjects of his Britannic Majesty, the liberty to take fish of every kind on that part of the southern coast of Newfoundland which extends from Cape Ray to the Quiperon Islands, on the shores of Magdalen Islands, and also on the coasts, bays, harbours, and creeks, from Mount Joly, on the southern coast of Labrador, to and through the Straits of Belleisle, and thence northwardly, indefinitely along the coast, without prejudice, however, to any of the exclusive rights of the Hudson's Bay Company"

Admiral Pickmore was succeeded by Sir Charles Hamilton as resident governor, the cod and seal fisheries became less depressed, and a brighter era again dawned upon the colony; but the system of legal jurisprudence was still far from giving satisfaction, and in 1824 a bill passed the imperial government by which the island was divided into three districts, in each of which a court was annually to be held. A chief and two puisne judges, a sheriff, and other law officers were appointed. In 1830 the Chamber of Commerce at St. John's sent a vessel to try the exclusive right claimed by the French to fish on the western coast, from Cape St John to Cape Ray, on our own island. The commander of the vessel sailed to St. Croque, was warned off by the commander of a French schooner mounting 16 guns, and a 32-gun frigate. The following is an abstract of the report of the English commander respecting his mission; the report itself was transmitted officially to the British government, but no

"Sent two boats fishing, which were driven from their anchorage by French boats dispatched for the purpose by Captain Deloram. They did not attempt to injure the men, but merely weighed their anchors, and ordered them to leave the coast, threatening, if they persisted in fishing, to cut them adrift, and force them to quit Same day came in the French naval schooner Philomele, of 16 guns, commanded by Mon-sieur Lavoe, and anchored some little distance below She had not been at anchor many minutes, when the commander came on board to inquire my business. On being told I came to fish, said I must depart. In reply, stated that I came to assert my right as a British subject to fish there, and that nothing short of force would compel me to leave the port He would see the captains, and send for me in the evening Sent for accordingly, and I went on board the Philomele, when I met Monsieur Sayers, who had a fishing establishment at Croque. asserted the exclusive right of the French to that part of the coast assigned them by treaty I as strenuously insisted on my right, as a British subject, to fish there in common with them, as well as the Ame-

This latter remark drew forth from Captain Lavoe first the minister's instructions on the subject of the American fishery on the north-west coast of the island Denied their right, and were ordered to prevent them by every possible means His instruc-tions respecting the English fishermen were next produced Instructed the French commanders not to permit the ingress of British fishermen more than was necessary for the protection or repair of their property in the winter, or during the absence of the French That, according to their construction of the treaty, they had an exclusive right to the fishery on that coast, or that part of the island set apart to their use, therefore they were to be particular with those tolerated by the merchant captains, and to make them understand that they were suffered to reside amongst them, and to fish, not as a matter of right, but as an act of courtesy and with regard to all other British subjects, they were, by every means in their power, to prevent their acquiring a right to fish on the coast, and in the execution of the instructions on that head, they were to be governed by the instructions relative to the Americans, viz not to use compulsion in the first instance, but a gentle opposition, and an intimation to depart, which hitherto had been found sufficient, but if the parties were obstinate, then force was to be resorted to, in order to effect their departure

"He then went into instructions relative to a salmon fishery at Cod Roy, in which a merchant of the name of Hunt was interested That his men were in possession of it, and, although within the limits of the French coast, maintained themselves in their post by beating off the crew of a French vessel, sent expressly from France to possess themselves of it the previous year. That, since seeing me in the morning, he had seen the captains, who were unanimous in their determination to prevent my crew from fishing, and therefore he could not sanction my doing so that I was not to attempt it again. That he should not attempt to remove me from the harbour; that I might remain as long as I pleased: steps have been taken to secure at least the he could not be so uncivil to any Englishman who

came in his way. Was particular in expressing his opinion that I had not any right, and that they were determined to prevent any boats from fishing, as

often as they attempted it.

"I of course desisted from any further effort, but waited on the commander of the Philomele, with my protests against Monsieur Deloram and others who had opposed me. He declined receiving them, and read the copy of a letter which he had addressed to the senior captains, directing them to prevent the Hannah's crew from fishing at Croque, or any other part in the French shore.

"The number of ships employed this season by the French in this fishery were 266 in all, viz — From Grainville, 116; St. Maloe, 110; Pampol and Bennick, 30; Havre, 4; Nantz, 6 Total, 266 from 100 to 350 tons burthen, having 51 men and boys each, amounting in the whole to 13,566, one-tenth portion of whom were boys. This number surpassed considerably the governor's estimate, a very good reason for which was assigned to me by the French gentleman from whom I received the information. Each establishment had two, some four cod seins, from 16 to 30 fathoms deep, and 200 fathoms long. Their capelin seins were from 21 feet to 50 m depth. two were held by each establishment. The cost of a cod sein crew amounted for the season to 6,000 livres, and the catch thereof to 1,200 quintals

"From the numerous interviews I had with the merchants and the naval commanders, it was apparent that they considered the cod fishery on that coast as their own, and that they would not consent to any competition, unless an equivalent were granted them: hence the orders issued by the ministers, the copy of which, handed me by the commodore, was similar to that displayed by Captain Lavoe —viz That the Americans were to be driven from the coast, and the British not to be countenanced in greater numbers than were necessary for the security of the French property in the winter. The absolute right of salmon ishery did not appear to be so strenuously insisted on as that of the cod, indeed, from the contest at Cod Roy, immediately within their own limits, and the evasive reply of the commodore on the question respecting it, together with other circumstances, it did not appear to me, that they considered they had any right to the brooks, or the shores of the harbours, other than that of catching and curing cod fish thereon.

"To the soil they had not any claim, further than that portion necessary for the purposes of their fichery. To insure sufficient space for that purpose they have invariably selected the best and most capacrous situations in each harbour, and by occupying the whole front, preclude the possibility of any other person approaching the situation selected for this

scene of their business.

"The coast abounds with timber of very excellent description for the purposes of the fishery. The land is good, for the most part producing every species of grass spontaneously, and in great abundance, free from bogs, and not a rush to be found on it or any portion of it. Indeed I could not discover any that could be deemed marshy, or at all approaching

"A long period has since elapsed without any benefit resulting to this community, as the fruit of the expedition, which was sent forth at some considerable expense to the merchants at St. John's.

"WM. SWEETLAND." (Signed) The practical effect of the claims enforced

by the French of exclusive rights on our coast, and which as justly may be claimed on the coast of Sussex, is the virtual cession of the larger and better half of Newfoundland to France. So strong were the national feelings at one period respecting the value of the British fisheries, that-

"The Act of 10th and 11th William and Mary, declares the trade and fisheries of Newfoundland a beneficial trade to the kingdom, in the employment of a great number of seamen and ships, to the increase of her majesty's revenue and the encouragement of trade and navigation.

"The same parliament came to a resolution, 'that the trade of Newfoundland doth very much promote navigation, increase seamen, and is of great profit to

the nation.

"The privilege of fishing ceded to the French by the Treaty of Utrecht was loudly condemned; it formed one of the principal grounds of impeachment against the Earl of Oxford, 'that he, the said Robert, Earl of Oxford, and Earl Mortimer, in defiance of the express provisions of an Act of Parliament, as well as in contempt of the frequent and earnest representations of the merchants of Great Britain, and of commissioners of trade and plantations, did advise his majesty finally to agree with France that the subjects of France should have liberty of fishing, and drying fish in Newfoundland.'

"The committee of screey, in 1715, on the Treaty of Utrecht, reported, 'What was really of most im-portance to England was the 8th Article, which relates to Hudson's Bay and Newfoundland; but the ministry suffered themselves to be grossly imposed upon in the article that they directly gave to France all they wanted, which was the liberty of taking and drying fish in Newfoundland. And as the acceptance of this amendment was to put an end to all the differences, and, at the same time, give such ample advantages to France, the French readily agreed to it, and did insert the article verbatim as it was sent in the treaty of commerce, which makes the 9th article as it stands; and is the same which was re-quested by the last parliament. This article, which has since been so universally and justly condemned, appears to be the work of the English ministry, and the price for which they sold to France the fishery of Newfoundland,'

Mr. Pitt declared, in the House of Commons, that no exclusive rights had been granted to the French. "The fishery," said he, in reference to the claim of Spain, "is a point we should not dare to yield though the Spaniards were masters of the Tower of London " The present excellent governor, Sir G. Le Marchant, reports that, by means of the French proceedings, "the British Bank fishery has ceased to exist."

The subjects of the crown in Newfoundland feeling deeply the importance of the matter, have again brought it under the consideration of the colonial legislature, and a committee of the House of Assembly have in consequence made the following report

thereon :--

The Newfoundland Fisheries - "The Bank and Shore Fisheries have engaged the deep attention of your committee. These important subjects have not hitherto been investigated by the legislature; they have therefore considered it their duty to take a general review of them from the earliest period general review of them from the earnest period. These fisheries are coeval with the colonial dominion and maritime superiority of England. Newfoundland was her earliest colonial possession, the fisheries, the first nursery of those seamen that gained for her the dominion of the ocean, and with it her vast, unbounded colonial empire, and the trade of the world.

"Soon after the discovery of the island by Cabot. in the reign of Henry VII, the fisheries gave employment to a considerable number of ships and seamen. As far back as the year 1549, an Act of the British Parliament (Edward VII) was passed for the better encouragement of the fisheries of Newfoundland During the reigns of Elizabeth, James I, Charles I and II, the trade and fisheries engaged much of the attention of the Crown and Parliament There were two hundred and sixty ships employed in the Newfoundland fisheries in the reign of Elizabeth seamen nursed in these fisheries mainly assisted in manning her fleets, which defeated the powerful

Armada of Spain.

"Charles I, in a commission for well-governing his subjects of Newfoundland, observes, 'the navigation and mariners of the realm have been much increased by the Newfoundland fisheries' Various Acts were passed in the reign of Charles II, and measures were adopted to revive the fisheries of Newfoundland, which had greatly declined. The preamble of the Act 10th and 11th William and Mary declares, that 'the trade and fisheries of Newfoundland is a beneficial trade to the kingdom, in the employing of a great number of seamen and ships, to the increase of Her Majesty's revenue, and the encouragement of trade and navigation

"The Act 15th George III declares the fisheries to be 'best nurseries for able and experienced seamen, always ready to man the Royal Navy when occasion may require; and it is of the greatest national importance to give all due encouragement to the said fisheries'

"In 1763, Lord Chatham, then M1 Pitt, negotiated in the first instance the treaty of Paris, which upon his resignation of office was concluded by Lord Bute Lord Chatham, who had contended on the part of England for the whole exclusive fishery of Newfoundland, and affirmed it to be of itself an object worthy to be contested by the extremity of war, censured severely his successor in office, for having returned to France some of the privileges which she had before enjoyed upon the coast, and for having ceded, in

addition, St. Pierre and Miquelon

"By the Treaty of 1783, additional concessions were made to France in the fisheries of Newfoundland. No part of the treaty was more uniformly censured than that which related to Newfoundland. The preliminary articles were censured by a vote in the House of Commons, and the ministry of the day had to retire however, the advantages ceded to the French were confirmed. Lord Viscount Townshend said, 'The admission of that nation (the French) to a participation of the Newfoundland fisheries, was a piece of the most dreadful policy and concession that ever disgraced a nation. Mr. Fox said, 'it was evident that our fisheries in Newfoundland, so much boasted of, were in a manner annihilated, not to men-

tion the impolicy of ceding St. Pierre and Miquelon.' Sir Peter Burrell said, 'Will any gentleman say that leaving the Americans liberty to dry their fish on the unsettled coast of Newfoundland was the way to prevent disputes p For his part, he saw, in the wording of the treaty, an eternal source of quarrels and disputes; and when he considered the footing on which the Americans are with the French, he was not without his apprehensions, that the right which the treaty granted to the latter to dry their fish on a coast near 190 miles in length, would occasion various attempts to bring in the Americans to this privilege.' Lord Mulgrave on the same occasion, said, 'he considered the Greenland fisheries much inferior to the Newfoundland fisheries.' Mr. Pitt expressed similar opinions

"The great advantages in a national point of view, of the Newfoundland fisheries, have been fully admitted by the most eminent statesmen of a later period On a motion proposed by Sir John Newport, in 1815, in which he expressed his views of the vast importance of the fisheries of Newfoundland, Lord Castlereagh said, 'he concurred with much of what had been said by the right hon Baronet as to the value of the fisheries; he most completely coincided with him, that they were not only valuable as a great source of wealth to the country, but they were still

more so as a source of maritime strength

"The greatest of trade ministers, the late lamented Mr Huskisson, in his celebrated speeches upon the shipping interest, colonial trade and navigation, never lost sight of the great importance of the fisheries. To the support of them, as a great source of the maritime power of England, he assented to a deviation from the great leading principles of his own commercial system In that eminent statesman's speech on the Navigation Laws of the United Kingdom, he says

"'The ocean is a common field, alike open to all the people of the earth; its productions belong to no particular nation It was therefore our interest to take care that so much of those productions as might be wanted for the consumption of Great Britain, should be exclusively procured by British industry, and imported in British ships This is so simple and so reasonable a rule, that in this part of our navigation system no alteration whatever has been made, nor do I believe that any ever will be contemplated' Sir Howard Douglas said that 'the fisheries in the British quarters of America were the most productive in the world; if they were not ours, whose would they be by What would be the effect of the total abandonment and transfer to another power of this branch of industry, upon our commercial marine, and consequently upon our naval ascendancy?'

"Your committee could, without end, produce authorities, both British and Foreign, to prove the inestimable value of the fisheries on the Great Bank and shores of Newfoundland The French government have at all periods duly estimated its importance. The Americans, even before they were separated from the government of the parent country, but more particularly since, have lost no opportunity to extend the Fisheries in the gulf of St. Lawrence, and on the banks and shores of Newfoundland. Your committee would conclude upon this head by referring to the opinion of a celebrated French authority (L'Abbé Raynal on the great value, in a commercial and national point of view, of the Newfoundland fisheries

"'The Colonies,' he says, 'have exhibited a series of injustice, oppression, and carnage, which will for ever be holden in detestation. Newfoundland alone

hath not offended against humanity, nor injured the rights of any other people. The other settlements have yielded productions only by receiving an equal value in exchange. Newfoundland alone hath drawn from the depths of the waters riches formed by nature alone, and which furnish subsistence to several countries of both hemispheres. How much time hath elapsed before this parallel hath been made,—of what importance did fish appear when compared with the money which men went in search of in the New World? It was long before it was understood, if even it be yet understood, that the representation of the thing is not of greater value than the thing itself, and that a ship filled with cod and a galleon are vessels equally laden with gold,—there is even this remarkable difference, that mines can be exhausted, and the fisheries never are. Gold is not reproductive, but the fish are so messantly.'

"Your committee consider it necessary to explain the grounds on which they refer to so many authorities to prove the value of the Newfoundland fisheries. The proposition, as far as they could learn, has never yet been questioned. They were induced to make these references in consequence of the utter neglect with which these fisheries have been regarded by the British government since the peace of 1814, on the one hand, and the avidity with which they were prosecuted by the French and American governments, on the other. 'Great Britain, who owns, supports, and defends these colonies and fisheries, and has derived from them the principal means of defending herself, gave up at the conclusion of the war, to her vanquished opponents, the most valuable portions of her coasts and waters. To the French, in 1814, she conceded the north coast and western coast of Newfoundland, from Cape St John to Cape Ray to the Americans, in 1818, she gave up the right of taking fish on the southern and western coast of the same island, from the Rameau islands to Cape Ray, and from Cape Ray to the Quirpon islands, to the Magdalen islands, and on the whole coast of Labrador, from Mount Jolly northwards, to the limits of Hudson's Bay, together with the liberty of using the unsettled parts of Labrador and Newfoundland for drying and curing fish' It cannot be questioned that Great Britain, by these concessions, ceded to the French and the Americans the best fishing-grounds, and these governments, to make the most of the advantages, grant large bounties for the encouragement of these fisheries, with the avowed purpose of increasing their maritime strength. Your committee may therefore state that the Newfoundland fisheries, instead of being, in the words of the British Act of Parliament, a nursery for seamen to man the British navy when occasion should require, have become converted into the best nurseries both for the French and American navies.

"The Deep-Sea fishery on the Grand Bank and other Banks can only be prosecuted in crafts and vessels of a large size, and with an expensive outfit. The French and Americans, by their bounties, are enabled to prosecute them to advantage, while every attempt of the British has proved a failure, arising, not from want of skill or enterprise on their parts, but altogether from the advantage enjoyed in the form of bounties by their foreign rivals. The unequal competition has swept the British ships from that fishery; it is now monopolised by French and Americans, and without a rival. As the Newfoundland fisheries are now comprised of that portion carried on by the British, that by the French, and that

by the Americans, your committee will give an abstract of each fishery, founded on such information, official and otherwise, as they could obtain.
"1st. The British Fisheries.—In 1615, Captain R.

"1st. The British Fisheries.—In 1615, Captain R. Whitbourne represents the British fisheries as employing 250 ships, averaging about 60 tons, and 20 mariners to each ship—in all, 15,000 tons of shipping, 5,000 seamen, and 1,250 fishing-boats. In 1644, in a representation made, the fishery was represented to consist of 270 sail of ships, computed at 80 tons each, and for every 80 tons, 50 men—in all, 21,600 tons, and 10,800 seamen. In the reign of Charles II. the British fishery greatly declined, and the French fishery advanced in proportion. In 1677, the British fishery is represented to consist of 109 ships, 4,475 seamen, and 892 boats, with 337 belonging to bye boat-keepers. In 1684, owing to the same cause (the French competition) the British fishery was reduced to 43 fishing-ships, 1,400 seamen, and 294 boats, with 304 boats belonging to resident boat-keepers—The extraordinary falling off of the fishery at this period is thus explained by the Lords of the Privy Council of Trade in 1718:—

""But thus decay of the fishery trade was not the only loss the kingdom sustained on this occasion; for, as Captain Jones, one of the commodores of the convoy in 1682, hath affirmed of his own knowledge, the traders from New England to Newfoundland yearly made voyages for the sake of spiriting away the fishermen, so that the Newfoundland fishery, which was formerly the great nursery for breeding up stout and able mariners, was now become a mere drain that carried off very many of the best and most useful of all the British sailors, and it is too notorious that this practice has prevailed ever since."

"The state of the British fishery from 1699 to 1726 exhibits the same rise and fall, as will appear by the following recapitulation.—

Average of years		Burthen of Ships		No of Passengers	No of Boats
1699, 1700, 1701 1714, 1715, 1716 1749, 1750, 1751	192 161 283	7,991 9,193 33,512	4,026 2,119 4,103	3,149	1,314 982 1,370
1764-5-6-7-8-9, 1770-1-2-3-4	516	40,691	5,435	6,441	2,163
1784-5-6-7-8-9, 1790-1-2 . }	480	48,950	4,422	4,617	2,258

Quintals of Fish made	Quintals of Fish carried to market	Tierces of Salmon carried to market	Tuns of Train Oil made	No. of Inhabitants
216,320	154,370		1,049	3,506
97,730	102,363		891	3,501
432,318	422,116	1,308	2,532	5,855
626,276	524,296	5,146	2,882	12,340
637,955	622,108	. 2,974	2,364	15,253
	216,320 97,730 432,318 626,276	216,320 154,370 97,730 102,363 432,318 422,116 626,276 524,296	The state of the	The state of the

Office of the Committee of Privy Council for Trade, Whitehall, 19th March, 1845.

"The occasional decline of the British fisheries appears to be accounted for by a variety of causes. The true causes—French and American competition, and large bounties—are scarcely noticed. It was confidently stated that it was owing to the resident population not exceeding in those days from five to

ten thousand. A report of the Lords of the Privy Council of Trade states, in 1718, that the indulgence shown to the planters in 1677, by permitting them to remain in the country, rendered the charter ineffectual, reduced the fishery to the lowest ebb, and favoured both the French and New Binglanders in carrying on the fishing-trade. The same report, in further accounting for the decline of the British fisheries, attributed it mainly to the neglect in enforcing the 10th article of the charter of Charles I., which ordains—

"'That no person shall set up any tavern for selling of wine, beer, &c., to entertain the fishermen, &c.; and it is as certain that the flourishing state of the fishery trade during the aforesaid period was, in a great measure, owing to this wholesome prohibition; for as long as it was maintained, so long the trade prospered, and it was no sooner dispensed with than the trade sensibly declined; and although the planters were afterwards kept in awe for some time by the charters that were granted by King Charles II, which confirmed the same prohibition, nevertheless, when that difficulty was surmounted, and they were at liberty to pursue their own measures, the fishery immediately languished'

"The true causes of the falling-off of the British fishery may be attributed to the unequal competition with which it had to contend from foreigners, their fisheries on the Newfoundland coast having been invariably supported by large bounties and other encouragements. It can be much more satisfactorily accounted for in that way than to attribute it to the settlement of the island, a resident population, or even to the establishment of taverns and public-houses

"A subsequent report of the lords of the committee of the Privy Council of Trade, on the subject of the Newfoundland fishery, dated 17th March, 1786, accounts for it in a much more satisfactory manner

when they state—

"'The French give a bounty upon fish, the produce of their fishery, imported into their West India islands, of ten libres per quintal, and at the same time lay a duty of five libres per quintal upon all fish imported into those islands by foreign nations. This bounty and duty taken together is equal to a prohibition of foreign fish; and it is a clear proof that, even in the opinion of their own government, nothing less than an encouragement more than equal to the first cost of their fish, can enable their fishery to have a share of their own markets in the West Indies.

"The French also give a bounty of five lures per quintal upon all fish, the produce of their fishery, carried into Spain, Portugal, and Italy This bounty is also so extravagant as clearly to evince the opinion of the French government of the low state of their fishery. If the legislature here was to give a like bounty upon the fish of your majesty's subjects carried to those markets, it would amount to £120,000 per annum. Such a measure can therefore be calculated merely to introduce their fish into those markets, but can never be intended as a permanent

encouragement.'

"Your committee wish particularly to draw attention to those opinions of the lords of the committee of the prry council of trade, to show how mistaken they were in supposing that the French intended their bounties merely as a temporary expedient. It will further appear that they have not only continued them down to the present time, but have extended the fishery thereby to an extent greater than at any former period.

"Your committee having shown that it was large bounties alone enabled the French to carry on the fishery on the coast of Newfoundland down to the period of 1793, have now briefly to remark, that from the war which broke out in that year until the year 1814, with the slight interruption of the peace of Amiens of 1802, the British had full possession of the fisheries, undisturbed by the competition of the French. During that period the fisheries greatly increased and prospered, and the quantity of fish caught ranged from 800,000 to 1,000,000 quintals per annum. It realized high prices in all the foreign markets; the price at Newfoundland advanced to the enormous sum of 45s sterling per quintal. The estimated value of the exports—the produce of the fisheries of one or two of the last years of the war—were stated to exceed two millions and a-half sterling.

ling
"Your committee have now to draw your attention
to the violent and sudden revolution, the rapid and
unparalleled decline, in the trade and fisheries, consequent upon the peace, first with France, and then
with America To the French were ceded the islands
of St Pierre and Miquelon, and the shores from
Cape Ray to Cape John To the Americans were
soon after granted equally valuable fishing-grounds,
and in addition, their respective governments granted
enormous bounties to uphold their fisheries, equal
almost to the intrinsic value of the fish It leaves no
ground to doubt the cause which brought such universal ruin, at that period, upon the British trade
and fisheries Your committee cannot better point
out the cause of the great depression of the fisheries
of that period, than by giving an extract from the
vidence before the House of Commons in 1817
George Garland, Esq., states to the committee, (Mi
chael Angelo Taylor, Esq., in the chair,)—that

"Another cause of the distress of trade may be

found in the surrender by our government, to France, by the late treaty, of a large part of the coast of Newfoundland, which is by far the most valuable part of the whole island for the prosecution of the fishery, and to which, in consequence of the general searcity of fish about St John's and in Conception Bay, the inhabitants of those districts, the most populous in the island, were wont annually to resort during the whole of the fishing season, though at the distance of 200 or 300 miles Since the cession of the French shore, the British fishermen of the said districts, confined to their own coast, have not caught above half the quantity of fish which they formerly did with the same outfit
The merchants urgently requested the government, previous to the peace, to retain this valuable part of the island; and though we do not presume to question the expediency of the sacrifice which has been made of their individual interest for the promotion of national objects, yet I would submit that it strengthens their claims to reasonable relief And lastly, but by no means least, another cause is to be found in the growing competition of the French and Newfoundland trade, which is fostered by its government with the most anxious solicitude, freed from duties either on its ships or produce, and enormous bounties on its produce, and on the men engaged in the trade, as will appear by a document which I beg to produce

"French Bounties on their Newfoundland Fisheries—On fish exported from Newfoundland, or from France to the French colonies, 24 francs per pellerical quintal, which is equal to 12 francs or 10s per English quintal of 112 lbs. On fish exported from

Newfoundland to France, and from thence to Spain, Portugal, Italy, and the Levant ports, 12 francs per metrical quintal, which is equal to 8 france, or 5s. per English quintal of 112 lbs. On fish exported from Newfoundland to Italy, Spain, and Portugal, direct, 10 francs per metrical quintal, which is equal to 5 francs, or 4s 2d. per English quintal of 112 lbs. On every kilogramme of oil exported from Newfoundland to France, 10 centimes, which is equal to 75s. per tun, of 256 gallons English. On every kilogramme of cods' rose and eggs, from Newfoundland to France, 20 centimes, which is equal to 8s. 4d. per English quintal or cwt. Besides the above, a bounty of 50 francs, or 41s 8d. per man is allowed to the French merchants for every man and boy employed in the French bank fishery sailing annually from French ports

"'This competition has already excluded us from the French markets, where, in the year 1815, we disposed of 100,000 quintals fish, it has met us in the markets of Spain and Italy, although in a limited degree, owing to the recent re-establishment of the French fisheries, and it is evident that nothing but the support and assistance of our government, in some way or other, can enable us to maintain the competition much longer with rivals who receive a bounty equal to one-third of the value of the article I have now completed the exposition of the causes of

distress.

"Mr Attwood said,—" Because it appears that the French are actually prosecuting their fishery with all the enterprise and activity that might be expected from such unlimited encouragement, not with standing the French fishery was so very unfortunate last year, that they were only able to supply little more than France and their own colonies with fish—I am told, on the authority of the French consul, that they have despatched more than four times the number of vessels on the fishery this year than they sent out last year. These are the grounds of my opinion, that without support from our government, or the intervention of some great political event, three-fourths of the present Newfoundland trade will go from this country into the hands of France in the space of three years'

"The result of the representation and evidence adduced before the committee was the following report—'It appears also to your committee that the trade itself has experienced a serious and alarming depression. The causes from which this has arisen will require, in the opinion of your committee, in the ensuing session of parhament, a much more detailed and accurate investigation; but enough has been shown by the testimony of respectable witnesses, to prove, before the House separates, that the fisheries will be most materially injured, the capitals embarked in them by degrees withdrawn, and the nursery for seamen, hitherto so justly valued, almost

entirely lost.'

"Notwithstanding this strong representation on the part of a committee of the British House of Commons, the subject has not since been taken up by the government. No relief or support has been afforded from that period to the present; the British fisheries have been left to languish and contend with the unequal competition; and as it was clearly proved, by the evidence of Mr. Garland and Mr. Attwood, the great and most important portions of the most valuable of the Newfoundland fisheries have fallen into the hands of the French and Americans, and

without any rivalry on the part of the British. The British fishery is now confined to an in-shore fishery, prosecuted in punts and small craft, leaving the deepsea fishery on the Great Bank, and the other valuable banks and fishing grounds, altogether in the hands of the French and Americans.

"Your committee have no hesitation in stating, that if the framers of the treaties of 1814 and 1818 had agreed to exclude the British from these great fisheries, they could not more effectually have deprived

them of all participation in them.

"Your committee will now briefly remark upon the state of the fisheries from the peace of 1814 down to the presnt period, having to contend with difficulties already noticed. Thrown altogether upon their own resources, unaided by the parent government, it must appear difficult to account for the preservation, by the British, of even a remnant of the fisheries. According to all mercantile calculation, they should have fallen into the hands of the French and Americans: however, the necessities of the large population which grew up during the period of a prosperous fishery worked for itself auxiliary means of employ-ment. The cultivation of the soil—combining fishing and farming-has enabled them to exist in the country, and thereby to preserve the in-shore fishery, the only portion that now remains to them. They have extended that fishery, and the aggregate quantity of fish caught is equal to that of the amount of the most prosperous years.

"Your committee, in making this admission, contend that it only proves that a trade capable of holding up against difficulties that would have overwhelmed any other in her majesty's wide-extended dominions, is worthy of more attention and consideration from the parent government than has hitherto been extended

towards it

" British Bank Fishery -The Great Bank Fishery suddenly declined after the treaties of 1814 and 1818 In the year 1775 it gave employment to about 400 sail of registered vessels, averaging from 80 to 140 tons burthen, employing from 8,000 to 10,000 fishermen and shoremen. As many as 140 sail was fitted out from the district of St. John's, and the remainder from the various harbours of the island. This important branch of the British fishery was extensively prosecuted during the whole of the French war. No sooner did the French regain the privilege of prosecuting the fishery, than their extensive bounties undermined the British Bank Fishery. Various attempts have been made to participate in it, but every attempt only brought ruin and disappointment on the British merchants or fishermen the consequence is, at this time, that the great Newfoundland Bank Fishery, so valuable in a commercial, but more particularly in a national point of view, is surrendered without a struggle to the rivals of England, the French and Americans; these powers employing at least 1,000 vessels of considerable burthen, manned with not less than 30,000 seamen; the British not having more than five vessels and 50 men employed in the great deep-sea fishery on the banks of Newfoundland.
"Your committee have to draw your attention to the

node of fishing lately adopted by the French. They have adopted what is called the Bultow system, by which means they extend lines and hooks miles round the ship. For a particular and socurate description of this mode of fishing, your committee have to refer to the statements of Messrs, Mudge and Co appended to this report. Your committee, in reference to this subject, have reason to believe that the Bultow systems.

tem of fishing is most destructive :-- it is a novel mode of fishing not sanctioned by any previous practice or custom. A question may arise, whether it is not a violation of the spirit of the treaty with France. It is a subject that should, without delay, be brought under the consideration of her majesty's government.* Your committee have not sufficient data to give a particular and authentic account of the French and American fisheries prosecuted in the Gulf of St. Lawrence and on the banks and shores of Newfoundland.

a French Fisheries,-It is universally admitted by all those who are acquainted with the subject, that the French occupy by far the best fishing stations Having possession of the islands of St. Pierre and Miquelon, they can prosecute the fishery to the Grand Bank with the greatest facility. They have also Bank with the greatest facility. They have also what has been called the Garden of Newfoundland, the line of coast from Cape Ray to Cape John that portion between Cape John and Straits Belle Isle secures to them the most prolific fishing-grounds; they not only have the advantage of catching a larger quantity of fish, but the climate is found, by the abquantity of hear, but the chinate is rounded in sence of fog, much more suitable for making and curing it, and preparing it for the foreign markets.

"The principal British fishery was carried on m

that quarter during the war To use the words of an intelligent writer on the subject- British fishers are consequently driven to the shores of Labrador, a longer voyage, where the quality of the fish, and the means of drying and curing them, are far inferior The north-eastern coast of Newfoundland happens to be precisely that which is most exempted from fog; the same winds which envelop other parts of the island in damp and mist, leave this portion clear and dry-a circumstance unknown, or apparently unregarded, by those who, in addition to other concessions of land and water, seem to have given away the light and heat of the sun ;-the consequence is, that in the curing of our fish a great part is destroyed by fog and damp, while the French fishermen, in addition to the abundance and quality of their fish, possess and monopolise the still greater advantage of the clearest and sunnest coast.'

"Your committee have reason to believe that this exclusive fishery is a usurpation on the part of the French—that all they are entitled to by treaty is a concurrent right; at the same time it must be admitted that their exclusive claim has, in some degree, been sanctioned by the forbearance and policy of the

British government.

"The extent of the French fishery of St. Pierre and Miquelon, and on the other coasts of the islands, may be estimated by a catch of 1,000,000 quintals of fish, employing upwards of 700 sail of large ships, and from 20,000 to 25,000 fishermen and seamen The French, both of St. Pierre and Miquelon, on the northern part of the island, carry on an illicit trade with the British settlers, particularly in bait, for the supply of their bankers, which is greatly injurious to

• We copy the following account of the operations of the French fishermen on the coast of Newfoundland—

"The vessels, it appears, mostly anchor in lat 50° N and long, 59° 20′ W in about 45 fathoms water, veer 90 or 100 fathoms of cable, and prepare to catch cod-fish with the operation of the preparation of the season of the control of the contro

British interests, and calculated to destroy the British fisheries on the coast by depriving them of their regular supply of bast. Your committee have to draw particular attention to this point, and have to refer

to the evidence appended to this report.

"In making this brief reference to the French fisheries, your committee must observe, that if the British and French fisheries were prosecuted without encouragement in the form of bounties, British industry, notwithstanding the other advantages pos-sessed by the French, would assume its usual superiority; but it is impossible for them to compete with the French, upheld as they are by immense bounties. The object of France is not to create a trade, but to create a navy. It is forcibly said by Mr. M'Gregor, in his history—'In ceding to France the right of fishing on the shores of Newfoundland, from Cape John to Cape Ray, with the islands of St Pierre and Miquelon, we gave that ambitious nation all the means that her government desires of manning a navy; and if we were determined to lay a train of circumstances which, by their operation, should sap the very vitals of our native strength, we could not more effectually have done so than by granting a full participation of those fisheries to France and America.

"American Fisheries - Your committee, in referring to the American fisheries, have also to say that they have no data to ground a correct estimate of them; but they can state that they are very extensive, employing from 1,500 to 2,00 sail of deck vessels, averaging from 40 to 100 tons burthen. of fish in the British waters has been estimated at 1,100,000 quintals, which must give employment to 25,000 fishermen and seamen The American fishers are observed in great numbers on the Grand Bank, and on the fishing-grounds in the Gulf of St. Lawrence—all along the shores of Nova Scotta, Prince Edward's Island, Newfoundland, and the shores of They commence their fishery early in the spring, and follow it up with the greatest assidulty to the latest period of the fall. The American fishery is encouraged by a bounty of twenty shillings per ton, and the supply of their own markets protected by a duty of five shillings per quintal on foreign fish. "Your committee have to observe, that the great

catch of fish by the Americans, supported as it is by bounties and other encouragements, operates, concurrently with the French catch and bounties, to sap

the foundation of the British fishery."

There is no further historical incident requiring record, save that in 1847 the capital, St. John, was again nearly totally destroyed by fire. The following is a list of the governors of Newfoundland, which includes some of the most distinguished names in the British navy:-

from the vessel, and when the lines are all run out straight, sunk them to within five feet of the bottom. The crew having rested all night, they proceed again the next morning at daybreak to trip the sinker, and while hauling in lines, unhooking fish, &c, the men left on board heave in the other end with a winch When in that manner 400 codfish are caught in a night, some are then employed line clearing, fish-beheading, splitting, salting, and stowing them away in layers across each other below livers and refuse boiled to oil put in large casks on deck. Three months seems to be the average time employed,—arriving early in June, and departing again in October.

	Governors			Year	Governors.				Year
Capt.	Osborne, R.N			1729	Admiral Campbell .				1782
,,	Clinton, R.N			11	Elliot				1786
	Vanbrugh, R.N			1737	Milbanke .				1789
29	Lord G. Graham, R.N.			1740	King's				1793
27	Hon. J. Byng, R.N.			1741	Sir J. Wallace .				1794
22	Sir C. Hardy, R.N.			1744	Waldegrave .				1797
99	Rodney, R.N			1749	" Pole				1800
	Drake, R.N.			1750	" Gambier		•		1802
	Bonfoy, R.N			1753	" Sir E Gower .				1804
"	Dorril, R.N.			1755	" Holloway .				1807
27	Edwards, R.N			1757	" Sir J. Duckworth				1810
	Webb, R.N			1760	" Sir J Keats .				1813
"	Groves, R.N			1761	" Pickmore .				1816
99	Palliser, R.N			1764	" Sir C. Hamilton				1818
	Hon. J. Byron, R.N.			1769	Capt. Sir T Cochrane, R N				1825
Comr	nodore Molyneaux			1772	" Prescott, R N .				1834
	" Duff			1775	Major-General Sir J Harv	ey			1841
Admi	ral Montague .			1776	Hon F W A. Bruce				1846
,,	Edwards		•	1779	Lieutenant-Colonel Sir J. (ł. Le	Marc	hant	1847

CHAPTER II.

TOPOGRAPHY, GEOLOGY, MINERALOGY, SOIL, AND CLIMATE. VEGETABLE AND ANIMAL KINGDOMS.

Newfoundland stands on an immense bank, British settlements are almost entirely conmass of solid rock. There are apparently two banks, the outer one lying within 44° 10′ and 47° 30′ N. lat., and within 44° 15′ and 45° 25' W. long., with soundings varying from 100 to 150 fathoms. Newfoundland is in form, nearly an equi-lateral triangle, the apex being to the northward and the base extending east and west, between Cape Ray and Cape Race. The coast is every where indented, at intervals of two or three miles, by broad and deep bays, innumerable harbours, coves, creeks, and rivers. The shores are all rocky, with pebble beaches, often covered with stunted wood nearly to the water's edge; with lofty headlands on the south-west side. The interior of the island remained unexplored until 1823, when Mr. Cormack, accompanied by some Indians, succeeded in traversing the island from east to west, viz. from Trinity Bay to interior would appear to be rocky, with numerous tracts of moss; much intersected cure, every where excepting towards its terby rivers and lakes, and but thinly wooded, mination of great depth, having upwards of except on the banks of the rivers, where 90 feet in the centre, and land-locked by

in length about 600 miles, and in breadth fined to the coast line; the best manner of about 200 miles, with soundings varying conveying an idea of their relative positions, from 25 to 95 fathoms; the base being a and of the country generally, or at least of the limited portion with which we are acquainted will therefore be by passing regularly round, examining by the way the chief bays, harbours, &c., commencing with the large peninsula, named Avalon, which constitutes the south-eastern portion of the island, and on which St John's, the capital, is situated. The deep bays of Trinity and Placentia, form the peninsula, and are separated only by an 1sthmus about three miles Two other considerable bays, those of St. Mary and Conception, run parallel with these, and dividing the peninsula into three lesser ones, give Avalon a very unusual proportion of water frontage, which from its proximity to the Great Bank, is of great value, and adds materially to the importance attached to it, from its situation with regard to Europe.

St. John is situated on the open eastern St. George's Bay. From his account, the coast, in 47° 33′ 33″ N. lat., and 52° 45′ 10″ W. long. The harbour is spacious and sepoplars, birches, and spruce firs grow. The high hills, which on its south side afford no shore, and on its north admit a strand, much exposed, for which the noble view it built over with warehouses and wharfs, commands can hardly compensate, The remarkable entrance, called the Nar- first estimate for its erection was £9,000; it rows, is thus described by Sir R. Bonnycastle:—"The ship, passing the open road-stead, or one-sided Bay of St. John's, scarcely sees the extremely narrow pass in the high made, states the ultimate expenditure at land which she must make, and on entering the Narrows, she has nearly half a mile of intricate navigation before she opens the whole harbour. On entering she has on her right hand, a precipice of sandstone and slate rock, nearly perpendicular, to the height of 300 feet, above which almost as steep, frowns the citadel called Signal Hill. a very narrow crest, 510 feet above the ocean waters. The Narrows themselves are only 900 feet across their sea-face, and diminish to about 400; so that from the deck, in passing, one looks up to the batteries upon batteries frowning in the sky, or on the edge of perpendicular cliffs left the mountain is above 600 feet in altitude, broken, abrupt, and very picturesque, admitting however, near the water, a sort of shoulder of small elevation, bristled with dangerous rocks, and shewing again batteries near the water's edge, with a jutting promontory of solid rock, on which there is a formidable work with the harbour-light perched on the top of a vaulted barrack After she has passed two-thirds of the Narrows, the town begins to open. In front is old Fort-William; on her right here, a strong water-level battery; and immediately over her, Waldegrave's battery, half-way down the precipice, with the Crow's Nest, a beautiful cone, capping all." In war time a chain is thrown from here to the Pancake Rock (a dangerous shelf on the opposite side), to prevent the admission of any hostile "The harbour then opens by a turn at right angles to the westward, and the whole city appears climbing up the side of a hill."

From the above graphic account, it will be readily understood that St John's is a place of considerable strength, both from its natural position, and the fortifications erected for its protection. The streets are long and straggling; Queen-street, the principal one, has good stone houses, and is from 30 to 40 Fort Townsend, the former feet broad. residence of the governor, stands in the rear of the town. The new government-house is on a scale very disproportionate to the income attached to the government; the position also appears ill-chosen, being bleak and

was said to have cost nearly £250,000, but Sir R. Bonnycastle, on the authority of the officer through whom the payments were much less than £35,000, including the furniture. The chief public buildings are St. John's church—a fine stone cathedral in course of erection by the Roman catholicsthe factory, to which the poor resort in winter to knit stockings, make nets, &c., and which contains a large and handsome public ball-room, an hospital, Wesleyan and congregational chapels, public schools, the old wooden court-house, with the jail, and some others. The town has been of late years much altered; indeed the calamitous fires mentioned in the foregoing chapter, by destroying great numbers of wretched wooden tenements made way for houses of a much better class. Sir Gaspard le Marchant, the present governor of Newfoundland, in a despatch dated 23rd May, 1848, thus adverts to the condition of the capital :-

"During the past year, great exertions have been made by the inhabitants of the town of St John's to repair their losses, occasioned by the fire of the 9th June of the preceding year New lines of streets have been laid out on an improved plan, both as to width and regularity, and intersected at suitable distances with cross streets or fire-breaks. In several quarters of the town new buildings have been commenced, and the works carried on with great spirit

and energy.
"In the lower street, Water-street, on the side commanding the frontage of the harbour, many handsome shops and substantial warehouses of stone and brick have been erected, at very considerable expense, by the merchants, and this part of the town wears an improved appearance. Very many of these have been erected at a cost varying from £4,000 to £8,000, and the ground rental of the premises lining this frontage averages £3 a square foot The Act, however, rendering it compulsory that all buildings in this street, as well as the south side of the street lying immediately above it in a parallel line, called Duckworth-street, should be either of brick or stone, does not come into operation till the next year; and it is much to be feared that, at the meeting of the local legislature, many and strenuous attempts will be made, and those successfully, for a further postponement of this most desirable measure; for, until this has been effected, in consequence of the contiguity of so many wooden buildings, serving only temporary purposes, the danger of a fire again spreading its ravages throughout the city, though to a certain degree lessened, will not be removed.

"The public buildings now in the course of erec-

tion are the custom-house, which will be completed in the spring, the colonial building, to be appropriated for the meetings of the local legislature, and the Protestant cathedral, towards which half the amount raised under the authority of the queen's

letter for the relief of the sufferers by the fire has been appropriated. A site has been fixed on for a market-house, and a sum of money voted for its erection, but, owing to the embarrassed condition of the finances of the colony, as yet no progress has

been made with the work.

"In the past year I have, out of the funds at the disposal of the government, formed two large tanks in the centre of the town, affording at all times a copious supply of pure and excellent water, and likewise, being frost proof, of the greatest utility in the event of accidents by fire occurring in their neighbourhood. At one of the chief outlets of the town, commanding the frontage of the river, and forming the upper part of the harbour, a public walk, affording a place of recreation to all classes, as well as contributing to the health of the inhabitants, has been commenced, and in the course of the ensuing season will be completed.

"The crowded state of the burial-grounds in this town has likewise occupied my most serious attention; and for the purpose of abating, if not entirely removing, this evil, so loudly complained of by the inhabitants generally, I have purchased a piece of ground without the town, of nine acres in extent, and intend dividing and appropriating it as a ceme-tery for parties of all religious denominations, in proportion to the number composing the several creeds, and shall use my best endeavours for the closing of those within the town. Two companies, the one for supplying the town with gas, the other for the supply of water, have been incorporated by acts of the local legislature, the former in the year 1844, whose works are completed and in full operation, the latter in the year 1846, whose pipes are now being laid down, and it is presumed the town will have the benefit of the undertaking in the course of the spring

"As no assessments are in force for any local or fiscal purposes, it is impossible to form any accurate estimate of the value of either household or other property in this town; the rental, however, of Water and Duckworth Streets has been by competent judges computed at between £35,000 and £40,000 a-year The accompanying return, marked No 2, will more accurately show the classification of the population of this town, the number of their houses, warehouses, &c., as well as the foreign vessels trading at this port, and the extent to which the fisheries are prosecuted

by the capital of the island."

A considerable portion of land in the neighbourhood of St. John's has been brought under cultivation, and though it doubtless requires much toil and expense to render it productive, and is certainly inferior to other districts, yet the capabilities of the soil here, as well as elsewhere, have been greatly underrated. he says, "St. John's has enjoyed a more and of eight from that of Trinity. productive season than for many years past, which, with the cheering prospect of miles deep and 45 broad. abundant crops in grass, grain, and potatoes,

eastern point of Newfoundland. It has on it a light-house, and is in 47° 30' 12" N. lat., and 52° 33′ 27" W. long. Petty Harbour is a small and secluded station picturesquely situated; more to the south is the Bay of Bulls, which extends two miles into the land. The harbour is difficult of access on account of a sunken rock; but once in, vessels may ride in safety. The settlement is prosperous, near it are those of Witless Bay, Momables, and Brigus Bay, the last being of some importance. Cape Broyle is a good harbour, but of difficult entrance; its south point is in 47° 2' N. lat, and 52° 55' W. long. Capelin Bay is an excellent harbour, a little to the south of it is that on which stands Ferryland, the first permanent settle-Mr M'Gregor states, "that a considerable extent of the surrounding land is under cultivation," while Mr. Chappell describes the vicinity as rocky and destitute of any trace of cultivation. On the harbours of Aquaforte, Fermoise, and Renowes, are We now arrive villages of the same names at Cape Race, the south-east point of the island, in 46° 40′ N. lat, and 53° 8′ W. long.; further to the south-west are two capes, each called Mistaken Point, on account of their being frequently mistaken for Cape Race in approaching the land from the southward The Virgin or Cape Race rocks, so much dreaded by mariners on this coast, are stated by Mr. Jones, master of H M.S Hussar, to be in 46° 26′ 15" N. lat., and 52° 56′ 35″ W. long; they extend in an irregular cluster, the length being about 800 yards; the breadth varying from 200 to 300 yards, the least water being four fathoms and a half.

Trepassey Bay, is a spacious inlet with a good harbour on its eastern shores, on which is a settlement of some importance. Trepassey Bav contains the smaller bays of Biscay and Mutton; passing Cape Pine and St. Shotts (the most dangerous portion of the coast), we arrive at St. Mary's Bay, which is well settled, and has several extensive cod-fishing establishments and salmon In Captain Loch's rivers, and is separated by a tract of only Report of the Fisheries, dated October, 1848, ten miles from the head of Conception Bay, bay is that of Placentia, which is about 60 The entrance lies between Cape St. Mary and Cape Chapeau has given new vigour and life to the capital Rouge, with several rugged islands near its after the fire and famine of the last and head. The port and town of Placentia lie preceding years. Cape Spear, about eight on the eastern side; and the chief harbour, miles from St. John's harbour, is the most which can only be entered by one ship at a

time, affords anchorage for 150. North Jukes describes as a mass of rocky humit is this isthmus which connects the peninsula of Avalon with the main body of the ısland. The French paid much attention to their settlement on the east side of Placentia Bay, which they strongly fortified with the hope of driving the English entirely from the fisheries of Newfoundland.

May Point terminates the peninsula which separates Placentia Bay from Fortune Bay. From May Point to Cape La Hune is 17 leagues, and in this place lies Fortune Bay (60 to 70 miles deep, and 20 to 30 broad), which receives several rivers flowing from the inland lakes, and contains numerous harbours and stations. The villages of Fortune, Great Beach, and Lamelin, he opposite the French islands of Miquelon and St Pierre. Mr. Jukes speaks of two men in Lamelin who had "fifty head of cattle a piece," which they fed on the grass growing on the adjacent marshes. The islands of Great and Little Miquelon (the lesser of which is called Langley by the English), were, some 60 or 70 years ago, divided by a channel of two fathoms depth, which is now entirely filled up, and its place occupied by a long narrow line of sand hills, with a beach on each side. Mr. Jukes describes the scenery as very striking, the high land of Langley sloping down towards the west, covered with rich green moss, into a dense mass of wood, and speaks also "of extensive meadows, where enough sheep and cows are fed to supply St. Pierre and the neighbouring population;" he adds, "they have very strict regulations in the port: no English boats or vessels are allowed to come in having fish on board, on penalty of being seized, and no Englishman is allowed to bring English goods and manufactures, or to set up a shop in the town. There is, however, an American warehouse belonging to Atherton and Thorne, which seemed to be doing a large business." St. Pierre, Mr. society was under proper control, St. George's Bay

Harbour is situated at the upper extremity mocks, the hills rising to a height of 400 or of Placentia Bay, the western side of which 500 feet, directly from the water, the holis well populated, and contains many har- lows and flatter parts consisting of marshes bours, the principal of which are Marasheen and ponds. To the north of St. Pierre is a island, Ragged island, and Mortier and Burin lofty islet called Colombier (dove-cote), from Bay. The eastern portion of the neck of the multitude of puffins which breed there, and land between the bays of Placentia and are continually flying about in large flocks. Fortune, is called Burin. From the head of To return to Fortune Bay,—at Harbour Placentia Bay to Trinity Bay, there is a Britain there is a large mercantile establishlow isthmus, not more than three miles in ment; Hermitage Bay is being rapidly setlength, across which the fishermen, during tled, and the Burgeo islands had in 1842, the time the French had possession, hauled 650 inhabitants. The salmon fishery on this their skiffs over ways laid for the purpose; coast is extensive; and the neighbourhood is the scene of the Newfoundland whaling. At Little Barrysway, according to Sir R. Bonnycastle, 100 Mic-Mac Indians trade in salmon, geese, and furs. Proceeding westward we reach Port-aux-Basque, and passing Grand Bay, arrive at Cape Ray, the western extremity of the island, in 47° 36′ 49″ N. lat., and 59° 21′ W. long. From this Cape to the Great Bay of Notre Dame, the French claim the exclusive control of the coast, that is, of all the western, northern, and northeastern shores of this the oldest British colony. To quote once again the words of Sir R. Bonnycastle (and it would be difficult to find a better authority on the affairs of Newfoundland,) "notwithstanding all their treaties, their resident population amounts, it is said, to upwards of 12,000, and as they are nearly all engaged in a most lucrative fishery, they receive every encouragement from their government, are registered as seamen, and, in fact, constitute to France what Newfoundland was before the last war to England, the nursery for her seamen."

Captain Granville Loch, R.N., thus describes the condition of the British settlement at St. George's Bay, in an official report, under date 2nd October, 1848 .-

"There are 200 resident planters in this bay who receive assistance in hands, during the fishing season, from Cape Breton and its adjacent shores. fishing usually commences a month or six weeks ear-her than that on the coast of Labrador. This year they began the 27th April They fish herring, salmon, trout, and eels, besides the cod. Up to the present date (17th August), their catch has been 10,000 barrels of herrings, 200 barrels of salmon, and but a small quantity of cod. They employ about 200 boats and 800 hands, and send their fish to the Halifax and Quebec markets during the summer and fall. The fishings end about the 1st of October, with the exception of the eels, which are caught in great quantities, and afford subsistence during the winter. They have bait without intermission during the entire fishing, and use herring, caplin, squid, and clams. The climate is usually dry and mild; and if their would offer many inducements to the industrious settler. The harbour is occasionally blocked up by ice, but for no length of time, and is always open by the middle of April. The inhabitants consist of English, a few Irish, and a number of lawless adventurers, the very outcasts of society from Cape Breton and Canada, and it is very distressing to perceive a community, comprising nearly 1,000 inhabitants, settled in an English colony, under no law or restraint, and having no one to control them, if we except what may be exercised through the influence shown by the single clergyman of the Established Church, who is the only person of authority in the settlement. I am told, the reason why magistrates are not appointed is in obedience to direct orders from the Home Government, it being believed against the spirit of the treaty with France. Under these circumstances, I would recommend, either that a vessel of war should be appointed to remain stationary in the harbour, or that the society should be forcibly broken up and removed, for violent and lawless characters are rapidly increasing, and neither the lives nor property of any substantial or well-disposed settlers are safe Four cases of violent assault were brought to my notice as having ecently been committed upon parties, some of whom were injured for life, and others nearly murdered; and I am sorry to understand the culputs had suc ceeded in escaping into the woods upon the appearance of her majesty's ship

The cultivation of grain has been commenced with considerable success Wheat, oats, and barley ripen well, and turnips grow exceedingly fine Potatoes and garden-stuff are cultivated also to a considerable extent. A great quantity of fur is collected, but the trappers suffer great losses by the frequent robbery of

both traps and their contents "

Mr. Jukes describes the country south of St. George's Bay as gently undulating, with a fine short turf, and more like some parts of England than any he had seen in Newfoundland. He landed on 11th September, 1839, at the mouth of a brook near Crab's river, on a very pretty spot, with green meadows on each side of the brook, and a few neat houses clustered under the shelter of a rising bank, covered with green turf Geese were feeding on the grass, ducks and poultry were scattered about; and a few cows and some sheep, gave it all the appearance of a pastoral scene at home. There was actually a fence and a stile to get over into a small field, with a footpath across it. The patriarch of the settlement, Mr. Morris, came and invited Mr. Jukes to sit down to breakfast with them, when he found plenty of fresh milk, eggs, and butter, hot rolls, excellent tea, and a snow-white table-cloth. It really seemed to the geologist a little paradise. From the rising ground behind the house the view was very beautiful. tract of low undulating land, covered with a interior for 15 or 20 miles, and was backed are in length about 50 miles by 12 broad. by a range of blue hills in the horizon that

rose towards the S.W., while towards the N.E. they gradually died away, and coalesced with the hills at the head of the bay. wood was not of the sombre hue so generally seen in Newfoundland, but was patched with the light green of the birch, and what the colonists term the wych hazel, the barm, and the aps, and probably the ash was pre-Finally, says Mr. Jukes, the little rich-looking valley of the brook, with its bright waters winding away into the woods, completed a most lovely and most English Mr. Morris and his son-in-law, Stephen Shears, arrived in Newfoundland without a shilling: they have now fields of wheat, cows, oxen, sheep, good habitations, and every comfort The climate, by their account, is very fine during the summer; snow, they say, generally sets in about three weeks before Christmas, and breaks up in the beginning of April.

There are some Mic-Mac Indians in this fine bay, into which several rivers, emerging from the lakes in the interior, empty themselves, and on the N.W. lies the magnificent double harbour of Port-au-Port, divided from it only by a narrow isthmus, from which point the most successful attempts have been made to explore the interior of the country, which is reported to be mountainous, abounding in rivers, extensive lakes (or ponds, as they are called in Newfoundland), and grassy plains The Bay of Islands stretches out three arms into the land, one of which forms the embouche of the Humber, the most considerable river yet known, its course having been traced for 114 miles to the north-westward, where it issues from a cape of about ten leagues in length. On this bay there are British settlers, a great timber station, and in it, as its name imports, are many islands-Pearl, Harbour, Tweed, &c. Bonne Bay has a good harbour, but of difficult entrance. Ingornachoix Bay contains three harbours, the chief of which is Port Saunders, a spacious inlet, so land-locked, that 90 or 100 vessels may lie perfectly secure from every wind; yet, owing to the absence of cod, it is uninhabited. To the north, round Point Riche, 18 St. John's Bay, which receives the waters of Castor river. Beyond Point Ferolle, the northern boundary of St. John's Bay, are a few inconsiderable inlets along the straits of Belleisle, which separate Newfoundland rich sea of wood, stretched away into the from the adjoining coast of Labrador, and

Cape Norman, 20 leagues beyond Point

Ferrole, is the N.W. point of Newfound- Bonaventure, Ireland's Eye, Random Sound, called Pistolet Bay, bounded by Burnt Cape. Newfoundland, in 51° 39′ 45" N. lat., and 55° 27′ 50″ W. long.; thence to Griquet Bay and St. Anthony's Harbour. Hare Bay is a deep gulf, the bottom of which intersects the island for two-thirds of its breadth at this point, branching off into innumerable bays and coves, sheltered by lofty hills. From this harbour to White Bay, and thence to Cape St. John, the coast is indented at short distances by commodious and much-frequented harbours.

Pacquet Harbour has an excellent fishery. After passing Cape St. John, the limit of the French claim, we enter the bay of Notre Dame, whose shores are broken by innumerable smaller inlets. Nipper Harbour is well inhabited in summer; but, in winter, the people either go to St. John's, or retire to the woods. In Hall's Bay some trappers and hunters live, who cross to the Gulf of St Lawrence in their hunting excursions.

The Bay of Exploits, which is of great extent, contains a number of islands, and several settlements, especially on Twillingate and Fogo islands. A large river of the same name falls into it, abounding in salmon, and flowing from Red Indian Lake, a course of about sixty miles, much broken by rapids Gander Bay on Hamilton Sound has some thriving fishing establishments. From Cape St John to Cape Freels the whole coast presents a continuation of ledges, shallows, To the afford excellent fishing grounds. Greenspond, which is situated at the north-This noble bay is diversified by numerous coast is majestic and wild. islands, and contains many safe havens. It has several good fishing stations, the chief basin hollowed out in the cliffs by the action place being Bonavista at its eastern ex- of frost, or the more certain operation of Catalina, where Jacques Cartier landed. It the rocks are composed. First a circle is is situated in 48° 42' N lat., 52° 59′ 20″ W. entered, 20 feet wide by 20 high and belong., and stands almost at the head of the yond is the basin itself, which is about 300 small peninsula between the great bays of feet in circumference, and surrounded by Bonavista and Trinity. Trinity Bay has perpendicular rocks 120 feet in height, with many settlements and harbours, the most a border of dwarf spruce at top. At one important are those of Trinity town and corner a little exit, among broken masses of harbour, besides which there are those of rock, carries off the superfluous water; the

land, and has on its E. side a large bay, Islands and Bay of Bulls, Tickle Harbour (a word often used in the Newfoundland Belleisle North, an island at the head of the charts, signifying a small safe harbour), strait, has an excellent cod fishery, claimed Dildo Harbour, Heart's Delight, Heart's by the French. We next come to Quirpon Desire, Heart's Content, New Perlican and Island and harbour, the northern point of Old Perlican Harbour, formerly a place of some note, which having passed we arrive at Break-heart Point, near which on the southeast is an insulated rock called Baccalao, said to have been first seen by Cabot in 1497, and called by him Prima Vista. merous birds on this island are called by its In a former work I stated them to name. be preserved by the governor's proclamation, because their cries being heard far at sea served as a warning to mariners during the frequent fogs; but Sir R. Bonnycastle, to whose authority I very willingly defer, says that I have been misinformed, the reason for their preservation being because they are sea marks for the banks and coast south-east of the island the deep and spacious inlet of Conception Bay stretches into the land for a considerable distance, being about 50 miles long and 20 broad. west shore is the best cultivated portion of Newfoundland, and the numerous, neatlooking villages render it an English-looking coast. There are several towns of rising importance. Carbonier, or Collier's Harbour is one of the chief, and is famous for the spirited defences made by its inhabitants against the French The harbour, though spacious, is not considered at all seasons secure, there are several settlements, such as Brigus, Port de Grave, Bay of Roberts, Harbour Main, Spaniard's Bay; in fact the whole shore from Point de Grates to Holyislands, rocks, and winding bays, which rood, a considerable station at the bottom of the bay, is studded with villages placed in the south of Cape Freels is the Island of deep inlets separated by lofty perpendicular rocks, which run out into the sea for two or eastern extremity of Bonavista Bay, and has three leagues, though they are not a mile in some extensive mercantile establishments. breadth. The scenery on this part of the

Near Port de Grave there is a remarkable The next harbour is that of time, in decaying the slate clay, of which depth near the centre of the cavity is about 14 feet. Captain Robinson states Harbour Grace to be a good port, and although the space between the end of the bar and the north shore is rather narrow, a large ship, well handled, may beat through or back, and fill in and out with the tide. Approaching the town from the northward you pass a large house surrounded by some considerable trees, which has an English appearance; as has also the little town, with its parsonage in the centre of a pretty garden, and weather-beaten church, bearing an antique, un-Newfoundlandish air.

On the eastern side of Conception Bay there are several islands, amongst which is Bell Isle (six miles long), so called from the shape of a remarkable rock close to its western side. This island is distant from Harbour Grace about twelve, and from Portugal Cove about four miles; and the soil. consisting of a loose deep black earth, is so extremely fertile as seldom to require manure, while wheat yields twentyfold, potatoes fifteen, and oats, hay, and vegetables thrive remarkably well. Portugal Cove is the only settlement of any consequence on the east side, but unlike most other positions it has no safe harbour, and only an open roadstead, rendered dangerous for the fishing craft in bad weather.

The scenery about Portugal Cove is described as strikingly picturesque, a succession of lofty hills on each side tower over the road, and shut out every other object; their coincal or mamiliated peaks are covered with wild stunted forest and bold masses of rock, intersected by cascades or tiny waterfalls. The scenery of the village at Portugal Cove is very beautiful, although the shore is a succession of ragged and broken rocks.

Cape St. Francis, the E. boundary of Conception Bay, is distant seven leagues from St. John's Harbour; four leagues lower is Torbay, a fishing station; and three

leagues further is St. John's.

Having now completed the circle of the island, it remains only to observe that there is much fine scenery in Newfoundland, many fertile spots even on the coast, and that British industry, economy, and skill have already laid the foundation of many towns and villages, which, from their position, will probably before long attain considerable importance.

THE LABRADOR REGION is little known; it is thus described by Captain G. Loch in

his recent report :---

"This extensive coast, commencing from the estuary of the St. Lawrence, and stretching far north to the regions of perpetual snow, is one of the most barren and desolate in the world; and it seems that nature has removed the means of supporting human life from its surface to the waters which surround it. the abundant productions of which offer the inducement, and reward the industry and perseverance of the thousands of adventurers who resort to it from both Europe and America. The portion forming the northern boundary of the straits of Belleisle is not so well marked or grand in feature as when it recedes from the island of Newfoundland, either to the north or south. From the sea, the country has a green and alluvial appearance, and it is not until close to it that this is lost, and nothing is seen but bare granite rocks, partially covered with moss and stunted shrubs; jumper, birch, and poplar trees grow in the valleys, where the soil is of sandy clay, the temperature much higher, and the fogs less frequent than upon the coast. Here deer, bears, wolves, foxes, martins, otters, beavers, and a great variety of wild fowl take up their abode, until driven to the coast by the snowdrifts of approaching winter. The ice does not usually leave the bays free for vessels to enter before June, and it begins to form again in the shallow bays and pools in the beginning of September.

The entrance of the Strat of Belleisle between York Point and Cape Bauld is 26 miles wide, the latter point bearing from the former S by E. At Cape Norman, 18 miles to the westward of Cape Bauld, the opposite coast of Labrador is distant only 14 miles, but the narrowest part of the strat is at Point Amour, in Forteau Bay, where it is only nine and-a-quarter miles wide; the western entrance of the stratt, between Greenly Island and Point Ferroll, is nearly 21 miles wide, the point bearing from the island S S W The course and distance through the strat is S 54° W. true, or, according to the mean

variation, W 1/4 S. 65 miles.

"The navigation of this strait is attended with very considerable danger, from sudden fogs, wandering icebergs, and strong irregular currents. In spring. the entrance of the strait to the northward is frequently almost blocked up by large ice islands, which are set to the S.W, even against strong winds from that quarter; these are broken up into smaller pieces as the summer advances, and are met with throughout the entire season. It is thus apparent, that the dangers of the coast are greatly increased in dark or foggy nights, during which no vessel should attempt to run, for it is impossible, under these circumstances, even with the most careful watching, to guard against unknown dangers, or to be sure of the vessel's position within ten miles, owing to the frequent irregularity in the set of the currents. The prevailing current runs directly through the strait to the S.W., and its rate is at times two knots, diminishing gradually in force as it spreads out in the wider parts of the gulf; but yet its course and velocity is greatly influenced by the prevailing winds; for example, with the wind from S.W., the stream sets along the west coast of Newfoundland, from Point Ferroll past Point Riche. In short, there is no constancy either in the rate or set of these streams, for the winds and the irregular tides modify the set and rate of the equally irregular current, in a manner which it is extremely difficult, if not impossible, to calculate upon with any degree of certainty. It would be prudent, therefore, on the approach of a dark or foggy night, to secure a safe anchorage, if possible; and

even if a vessel bound to the gulf, and running with an easterly wind, should find no port fit for that purpose, I would advise her standing over to the Newfoundland side of the strait, where the soundings are not so deep, and the icebergs not so prevalent, and then either lying to until daylight, or anchoring in the stream.

Mountains and Hills .- On the gulf shore of Newfoundland, distinct ranges of mountains extend from Cape Ray, where they commence with three sugar-loaf hills, and then proceed continuously in a N.E. and W. direction. These ranges, says Sir R. Bonnycastle, stretch very far up the west coast, and with occasional lofty off-shoots which reach the sea, are usually so distant from it as to leave a belt of comparatively level country, of considerable width, through which the small river drainage passes. The elevations have a steep face towards the N.W., and are rather flat and regular at the summit. One conspicuous hill bears true N.E. from St. George's harbour, distant 20 miles in a straight line. The "Blow-medown hills," on the south side of the Humber river, have their least elevation at 800 Beyond the coast ranges to the eastward and northward the country is covered with rivers and lakes, of great extent, and is of course well drained by them in a vast area, reaching almost to the Atlantic cliffs on the east coast.

In Avalon district or province, there are two ranges of hills, one from the back of Renews to Holyrood, in Conception Bay, extending for 20 miles in length, not lofty, but with precipitious and rugged outlines, the heights or hummocks called the "Butter pots" at either end are about 1,000 feet, and there are other eminences of nearly equal altitude in other parts of the range. The other ridge passes from Cape Dog, in St. Mary's Bay, to near Chapel Arm in Trinity Bay; it is less broken and rugged than the former mentioned, has a more continuous outline, and its highest elevations of 1200 to 1.500 feet, are for the most part rounded or flat topped. The Sawyer's Hills (so called from their outline), south of Placentia Bay, is a subordinate ridge, as is also some high rough land forming the isthmus connecting Avalon with the main part of the island, and the elevations about St. John's, viz. Signal Hill 520 feet, South-side Hill 700 feet, and Branscombe Hill 870 feet above the sea.

A mountainous country in miniature (none of the hills exceeding 1,000 feet), extends along the west shores of Placentia angles to the stem, and stiffly interlacing,

Rouge to Piper's Note. This range of lofty, broken, and precipitous land, runs along the west side of Trinity Bay to Trinity harbour. and thence crosses into Bonavista Bay about Keel's Head. Mr Jukes states that it has an irregular width of several miles, occupies the east half of the peninsula between Fortune and Placentia bays, and forms a fine peaked and serrated mass of hills some miles west of Random Sound in Trinity Bay, which stretches also to the neighbourhood of Goose Bay in Bonavista Bay. One isolated peak upwards of 1,000 feet above the sea, named Sainter's Hill, or Centre Hill, or Powderhorn Hill, overlooks nearly the whole of the Bays of Placentia and Trinity, as well as some of the high grounds about Conception, Bonavista, and Fortune Bays. The west side of Bonavista Bay from Clode Sound, northwards, is low, but as far as Mr. Jukes could judge of the interior, the country towards the N.W. consists of regularly undulating ridges, running generally N N.E and S.S W., never rising more than 300 or 400 feet, and covered with dense wood.

The "Blue Hills" run about N.N.E. and S.S.W, in a line with the promontory between Gander Bay and Dildo Run, and are not supposed to exceed 1,000 feet in height. Another range of 1,000 to 1,500 feet in elevation, are seen from the mouth of the river of Exploits, closing the view up the valley of the lower part of the river: they are flattopped with precipitous sides, which gives them a square appearance. A ridge of high land runs from them towards the S.S.W.

The southern portion of Newfoundland has very lofty cliffs, and the high land contiguous the sea, excludes all view of the intemor from the sea. The country is said to be grooved in every direction by small valleys and ravines, covered with round hummocky knobs and hills, with rocky and precipitous sides.

The summits of the hills and ridges and other elevated and exposed tracts termed "barrens" are covered with a thin and scrubby vegetation, and are somewhat similar in appearance to the moorlands of Yorkshire; they are frequently devoid of vegetable soil, and consist of bare patches of gravel, boulders, and crumbling fragments of rocks. In the hollows of these barrens, as in other situations, the dwarf junipers, called in Newfoundland "tucking bushes," grow about breast high, with strong branches at right Bay and the adjacent islands, from Chapeau their flat tops are as level as if they had

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been regularly clipped. They are so stiff that it is almost possible to walk on the summits of a dwarf juniper tract, but to penetrate far through the bushes is impracticable; and this is one of the obstacles towards the exploration of the interior.

Lakes.—Newfoundland is covered with lakes and lakelets (called ponds). They are found all over the face of the country, not only in the valleys, but on the higher lands, and even in the hollows of the summits of the ridges, and on the very tops of the hills. They vary in size, from pools of 50 yards in diameter, to lakes of 30 miles long by 5 broad. From the top of the N.E. mountains in Avalon, 67 ponds were counted, some of them 2 or 3 miles across; none less than 100 yards, and none more than 10 miles from the base of the hill. principal are the Grand Pond, Red Indian, Gander Pond, George the Fourth's, Jameson, Wilmot, and Bathurst lakes. There is also a large unexplored lake on the E. part of the island, near Bonavista Bay.

Grand Pond is 50 to 60 miles long, five miles broad at the widest part, viz, to the N.E., and has, at its western extremity, an island 20 miles long by 4 or 5 wide, which causes the lake to divide into two arms. The island is steep and lofty, like the surrounding country, at the S.W. end, but is lower to the N.E. The Indians say, that by means of a chain of ponds, they can navigate to the Great Lake from St. George's

harbour.

Red Indian Lake is said by the Indians to be about 30 miles due E. from Grand Pond, and is about 30 miles long by 5 to 6 broad.

Victoria Lake is about the same length as the preceding, but not so wide. This lake has a water communication with Bathurst, Wilmot, and George the Fourth lakes, but we know too little of their extent, or of the surrounding country, to say more on the subject.

GEOLOGY.—A considerable part of the coast line of Newfoundland was examined by Mr. J. B. Jukes, as geological surveyor to the local government in 1839-40. The aqueous or stratified rocks consist of the following formations:—

Formations

1. Coal

- 1. 35
- 1ª. Magnesian limestone.
 Upper slate formation
- 3. Lower slate ditto
- 4. Gness and mica slate

Subdivisions.
Upper portion
Lower or red ditto

- Belleisle shale and gritatone
- Variegated slates.
 Signal hill sandstones.
 St. John's slate.

The unstratified or igneous rocks consist of various kinds of trap, greenstone, serpentine, hypersthene, porphyry, sienite, and granite.

The upper part of the coal formation consists principally of dark shales, with brown and yellow sandstones or gritstones in thin beds. The lower part is characterized by beds of red sandstone, red and green marls, and gypsum. The two parts pass by insensible gradations into each other. brown, and whitish flags and sand stones, dark blue clay, and an occasional bed of black shale occur throughout the formation. Some of the lighter coloured sandstones contain carbonate of lime and the red and green marl, and large masses of gypsum, in thick beds. The total thickness of the coal formation is considerable, the portion examined by Mr. Jukes had a depth of 1,000 to 1,500 feet. The magnesian limestone seen, was generally of a yellow colour, about 50 feet thick, in beds of two to three feet each, frequently splitting into flags. bed of carbonate of lime was found of a grey colour, two feet thick, with a band of brown chert. The magnesian limestone seen by Mr. Jukes had generally a yellow colour, but rudely spheroidal concentric stripes of pink frequently occurred. These, whichever direction the rock was split, produced markings similar to those seen in fortification agate, but on a much larger scale, being often two or three feet across. The upper slate formation is supposed to be below the coal formation in the series. The superior portion consists of dark micaceous shale, splitting into thin laminæ, with interstratified beds of a very fine-grained grey gritstone, which increase in number, thickness, and coarseness of grain with the increasing depth, until the shale disappears altogether. The thickness of the two portions seen was several hundred feet. lower slate series is deemed by Mr. Jukes to belong to an older formation, and to be composed of two groups, viz., a mass of red and grey sandstone, which, at the Signal hill entrance of St John's harbour, has a thickness of 800 feet, and the St. John's slate, in which beds of red, green, and greystone alternate near the junction of the sandstone, with the slate rocks forming the transition The thickness of beds between the two. this formation is estimated at 2,000 to 8,000 The change of the slate feet or more. is frequently parallel to the line of stratification, and produces excellent roofing Veins of white quartz and masses of porphyry are found associated with the the back of St. George's Bay, to nearly the

igneous rocks, do not differ from those usually of Canada Bay on the W. side of White found in other parts of the globe; the mica Bay the geological surveyor was informed and the gneiss, however, alternate with and that limestone exists in abundance, and a pass into each other; excepting some very indistinct vegetable impressions in the coal formation, no organic remains have yet marble of the Humber. been found in any rock in Newfoundland.

broken ridge to Cape Quirpon, the extreme northern point of the island On the N side of St. George's Bay magnesian limestone dips at a slight angle to the N N W. At Grand Pond the cliffs are of gneiss and mica Inthe N E corner an exposed section was found to contain (1) sand and boulders, 10 feet; (2) softish grey and yellowish sandstone, 5 feet, (3) ditto ditto shaly, 1 foot, (4) coal, some part like cannel coal, 6 inches; (5) yellow church, 2 inches; (6) grey bind, All these beds dipped at an angle of 30° to the S.E. The country between Port aux Ports and the Bay of Islands is probably composed of igneous rocks. it is lofty and unbroken. A calcareous formation stretches across the mouth of the Humber river, in hills of 400 to 500 feet high. About three miles up the river are lofty precipices of pure white marble, crowned and surrounded by thick woods, which closing in upon the rapids, produce most picturesque scenery. Mr. Jukes says that blocks of this pure marble of any required size may be procured. Mr. Cormack, when crossing the island from Random Sound to St. George's Bay, mentions having seen abundance of serpentine E. of Jameson's lake; N. of the Bay of Despair, granite, sienite, quartz, gneiss, fine clay slate, alum slate, and indi- unctuous clay, perfectly plastic, 15 or 20 feet cations of coal and iron. From the hills at thick, and lying in thin layers, usually of a

centre of the island, he mentions no other The Mica slate and Gneiss, and also the rock than granite. In the neighbourhood specimen brought to St. John's was identical in mineralogical character with the white

The "strike" throughout the island rarely Nearly the whole peninsula of Avalon is varies from a true N.N.E. and S.S.W. composed of the lower state formation. The course, hence all the other prominent feacountry W. and N.W. of Avalon is com- tures of the country run in the same direcposed chiefly of variegated slate, coarse sand-tion, not only as regards the ranges of hills, stone, and conglomerate. The region W. but also the principal lakes, deep bays, and of Fortune Bay, and E. of Cape Ray, con-valleys, he in the same line of bearing. The sists of primitive rocks, chiefly granite; also Bay of Islands is the only important excepgness, senite (porphyry and basalt), quartz, tion to this rule. The "strike" and cleavmica slate, clay slate, and turpentine. The age of the rocks are not absolutely depen-W. coast from St. George's Bay to the north-dent on the strike and dip of the beds; the ward contains, according to Sir R. Bonny- "strike" of the cleavage is not invariably castle, the carboniferous rocks. Mr. Jukes parallel to the strike of the beds: but the says that mica slate, gneiss, and their asso-cleavage is much more constant as regards ciated rocks, with occasional patches of pri- its strike and dip in relation to the points of mary limestone, extend along the whole of the compass than it is in relation to the the W. side of Newfoundland, and from the strike and dip of the beds, or than those Humber river he supposes they form an un- latter are to the horizon and points of the compass

As regards the relative age of the igneous rocks, Mr. Jukes supposes that the granites are generally newer than the mica slate, and the gness which repose upon them. coal formation seems to be contemporaneous with that of Western Europe, Nova Scotia, Cape Breton, and New Brunswick, and the most modern group of stratified rocks in Newfoundland; he adds, "the mass of the granites and other unstratified rocks are more recent than the lower slate formation, some of them at least more recent than the upper slate formation, and they may be more modern even than the coal formation" Lieutenant-colonel Sir R. Bonnycastle, alludes to the evident volcanic action among the primary sandstones and conglomerates, and other indications of the same power which has been exhibited in Canada, and generally British America. Granite boulders are plentiful, and frequently of large size. and found on the tops of hills 400 to 500 feet, composed of gritstone, slate, or sienite, 20 or 30 miles from where any granite is to be found. Over the greater part of the island, drifted materials to the depth of several feet are to be met with.

At the river Exploits, was found a fine

bed of fine sand two or thre feet thick. It tend much to its improvement. is evident from the foregoing, that abundance stone and of marble are obtainable in Newfoundland.

The prevailing rock on the Labrador coast. so far as we know, is gneiss. On this at Anse le Loup, a bed of old red sandstone is super-ground, about 200 feet thick, and extending above half a mile inland. Here also, as on every other part of the coast of Labrador visited, the appearance of the cliffs, and of the land near them, and the rolled masses, inland, which have evidently been exposed to the action of the sea, seem to prove that it has considerably receded. The sandstone is generally red and white, in alternate stripes, and presents a remarkable mural front to the sea. Near the surface it was strongly marked with iron. The whole of the rock was composed of white quartz and yellow felspar; the grains being generally as fine as oatmeal, though occasionally coarser, even to the extent of half an inch coast. Both coarse and fine, bear ın dıameter. marks of being a mechanical deposit, and are, with few exceptions, perfectly distinct, without the least appearance of amalgama-Over the red sandstone was a thin stratum of red compact felspar, containing vegetable impressions, and also horizontal. Above this were varieties of secondary limestone, arranged in parallel strata several feet thick, and full of shells. Detached masses of primitive limestone were also found; and a few miles from the shore the secondary formations generally disappeared, leaving gness and mica slate on the surface.

MINERALOGY.—Coal. There are beds of this valuable mineral on the south side of St. George's Bay, and in the counties north of the Great Pond; there are probably other beds on the west coast. The Newfoundland coal field is evidently a continuation of the coal strata in Nova Scotia, Cape Breton, New Brunswick, and Gaspé. Mr. Jukes says, that the seams he saw were of no great thickness, but that more important ones will probably be found. At eight miles from the Gulf shore a bed of coal, known to the Mic-mac Indians, was seen of three feet in thickness and of excellent quality. The guides said that equally valuable beds, in a similar parallel were to be found up the St. John's; passing through the usual gra-Codray river. The extent of the coal field dations to pipe-clay, unless largely mixed is estimated at 25 miles long by 10 broad. with lime, it is too purely aluminous to be

slate colour, with a reddish band here and As population increases in the island this there, but no sand. Above the clay rests a discovery will be found of great value, and

Gypsum comes out in abundance on the of building and of roofing materials, of lime- sea cliffs at Codray harbour, and the S. side of St. George's Bay. Beds of limestone of inferior quality are found in Mortier Bay, and Chapel Cove in Holyrood, and in Conception Bay.

> Copper.—A small vein of sulphuret and green carbonate exist in the Signal Hill sandstone of Shoal Bay, and was worked to some extent in the middle of the last cen-

> Lead.—Crystals of galena were seen in the sienite on the west side of the harbour There is said to of Great St. Lawrence. be an iron mine on the northern side of Belle-isle, and another at Harbour Grace. There is also a quantity of the mineral called marcasite, copperas stone, and horse gold, iron pyrites (which some of the earlier discoverers mistook for gold), found in the vicinity of Catalina harbour.

Salt springs are reported near the W.

Soils.—The thick coating of moss, which Mr Jukes calls the "curse of the country," prevents the nature of the soil being generally known: where this moss has been cleared away, as at the south side of St George's bay, the excellence of the earth has been manifested. The soft sandstones and rich marls which compose the coal formation, generally form very fertile districts. The timber, natural grass, and clover found in various places, indicate a productive soil. There are valuable alluviums in the neighbourhood of the rivers and lakes. stunted forests on the east and south shores mark a poor country; but the large forests in the interior and to the westward, show that there is abundant room for successful agriculture, and that Newfoundland could well supply itself with vegetable and animal food. On the settled parts of the east coast there is none of the rich black soil caused by accumulating vegetable decomposition. Around St. John's the soil is shallow, poor, and hungry, formed of decomposed sandstone and slate rocks, with a loose and friable mixture of silicious and aluminous matters. It requires constant manuring of fish, seaweed, mud, and ashes, to produce crops. There is much of a whitish-gray clay about

or the igneous rocks, are found, the land which is within a short distance. is better, the grasses more luxuriant, the forest-trees finer, and the potato crops are Bay as "bitterly cold," even in the middle more certain. along the east coast, consisting of decayed when the surface was still, the echini, shellsandstone coloured by iron, with a saline fish, and cretinize clinging to the rocks, atmosphere, and exposed to almost constant crabs and lobsters crawling on the bottom, tempestuous weather, affords no criterion of fish, meduse, and myriads of sea creathe fertility of other parts of the island.

CLIMATE AND DISEASES.—The climate of Newfoundland is different in the northern and southern districts, and the west coast the winter a series of storms of wind, rain, ocean over the banks. In Newfoundland, as in Canada, the land or N.W. wind in winter is bitterly cold; in summer it is pleasantly neighbouring shores.

The fogs of the Gulf of St. Lawrence are winds are drier. attributed to the coldness of the Gulf waters, which is believed to be constant a few feet waters have acquired a temperature apbelow the surface as well as at great depths; proaching that of the air, a peculiar mirage every gale of wind brings this cold water to is observable off Newfoundland and in the the surface, by which the temperature of the Gulf of St. Lawrence; during its early exair is reduced below the dew point, at which istence the line of trees with which the hills suspended vapours are precipated and become are covered, seem raised much above the visible. Those on the Banks of Newfound- level of the rest, resembling a lofty hedge land are most probably caused by the cold row; this, however, is soon lost, as all the deep water flowing from the Pole to the trees apparently attain the same height, Equator, being there forced to the surface in giving the appearance of an immense table, consequence of the interruption given by the stretching from hill to hill; the shores in the banks to its southward course. The surface mean time assume the semblance of a great water on the Great Bank is many degrees wall, and the island seems girt with a similar

serviceable. Wherever the variegated slate, and much less than that of the Gulf stream,

Mr. Jukes describes the water in Trinity The belt of a few miles of a warm July, and so singularly clear that tures floating in its depths, were as clearly visible to a depth of 30 or 40 feet, as in the air itself.

The fogs on the banks of Newfoundland. is more sheltered, and therefore milder than and even in the Gulf of St. Lawrence, are the east coast. The weather, although sometimes so dense, that in fine, almost calm severe, is less fierce than that of Lower or weather, with the sun shining over head, Eastern Canada. The summer is shorter than two vessels pass each other unseen, while the that of Canada, the autumn less certain, and voices of persons talking can be heard from ther ship. The fog appears to he on the surand snow. Snow does not he long on the face of the water, for when near land, an obground, and the frost is less intense than in server from the mast-head may descry it quite Western Canada. Winter lasts from the be-distinctly, while on deck no object within a ginning of December until the middle of few yards distance is visible. The fogs are April. January and February are the coldest not generally attended with rain, but the months. Severe gales of wind extend along decks are often kept wet, and the higher the coast, the coldest from the N.W. The masts and rigging collect the condensed land or westerly winds are naturally drier moisture of the atmosphere in large drops. than the easterly winds, which sweep over Fogs do not prevail at all seasons; in May the Atlantic for three-fourths of the year, and the beginning of June they are most and cause considerable evaporation from the prevalent. The annual register of fogs for 1841, shews. January, one day and a half; February and March, none; April, one; May, three; June, two; July, one; August, warm. The sea, or north-easterly wind, is one; September, four; October, one; November, the south-vember, two, December, one. Total, 171 easterly, warm. During a long winter, the days. Of light fogs or mists there were in brilliancy of the aurora borealis, and the 1841, 191 days: shewing, altogether, 37 splendid lustre of the moon and stars give days of foggy weather throughout the year. peculiar beauty to the atmosphere. The The E. and S. shore of Newfoundland are most remarkable feature connected with New- more subject to fogs than the W. coast. In foundland is the fogs on its banks and summer, an easterly wind brings fog; W. and S.W. winds, rain. The land or W.

In the early part of summer, when the colder than that of the neighbouring sea, inclosure, or bounded with precipices all

round; their tops also look flat like tables, and the small island often assumes a flowerpot shape. Dr. Kelly observed one instance in the river St. Lawrence, where the islands of Bic and Bicquette appeared to jointheir wooded tops to meet, leaving an arch, beneath which the waters seemed to flow. On the beach the spray seems to rise in foam to the tops of these imaginary cliffs, while the houses, &c., attain a similar height. Ships, according to their distance, present different elevations, sometimes rising to twice their real height, at others the masts reach only a few feet from the deck; sometimes the upper sails seem double—a second set being seen at a considerable height above the first—while again a second vessel's hull, sails and all, is seen above the first; but in no instance is inversion observed, and the object thus refracted is always visible to the naked eye. The fogs do not appear to be injurious to health. The longevity of the inhabitants is indeed the best proof of the salubrity of Newfounland; in no country is old age attended with greater bodily vigour and mental animation. There are instances of fishermen 100 years of age being actively employed in the arduous duties of their calling.

In 1829, Martin Galten was hving at Marasheen ısland, Placentia Bay: he was then more than 100 years old, in excellent health, and caught with his brother that year nine quintals of cod fish. Seventy years previous he piloted Captain Cook into Placentia Bay. In the same place lived Nancy Zibeau, mother of four living generations. A Mrs. Tait died there in 1819, aged 125 years: she was with her third husband at the siege of Quebec by General Wolfe. Colonel Bonnycastle stated in 1842 that a woman died recently at Torbay, near St. Johns, aged 125 years, and before her death she sent for a doctor to see what was the matter with her poor child, who was sick, the said child being then 90 years of age.

The reports furnished to the "Horse Guards" and "Army Medical Board," confirm this view of the salubrity of the island. This official return states, that

"The climate of the southern portion of Newfoundland is similar to that of Nova Scotia, except that the summers are colder, of shorter duration, and lable to more sudden vicissitudes, owing to the melting of the icebergs on the coast, which exerts considerable influence on the temperature; the island has also been long noted for the frequent and dense fogs which prevail along its banks, and often continue during a great part of the summer. None of these agencies, however, seem to operate prejudicially

on the health of the inhabitants, among whom the mortality is on a lower scale than in any portion of the American continent.

"According to the population returns, the deaths are only 1 in 76 of the population—an exceedingly low ratio indeed, especially when it is considered that upwards of 20,000 are children under 15 years of age. As the inhabitants are scattered over a great extent of coast, several of the deaths may possibly have been omitted; but, even making all due allowance for that source of error, their rapid increase, without any material aid from immigration, furnishes sufficient proof that the climate, however unpleasant to the feelings, is highly favourable to the constitution.

"Had we drawn our conclusions in regard to the climate, however, from the mortality among the troops at this station, we should have been led to very different conclusions. Unfortunately, we cannot extend our observations on this subject to an earlier date than 1825, because, prior to that period, the garrison having principally consisted of two companies of one of the regiments at Halifax, their returns were frequently included with those of that station. Since 1825, however, a corps has been formed for service in this colony, consisting of three companies of veterans, who, although for the most part aged or disabled, have been reported as fit for garrison duty. These, with a company of artillery, have generally constituted the whole force, among whom the sickness and mortality has been as fol-

Years	Newfoun Co	dland V mpanies		Royal Artillery		
20010	Average Strength	Deaths	Mean Sick	Average Strength	Deaths	Mean Sick.
1825	321	18	20	61		•4
1826	292	7	17	56		12
1827	310	8	18	62		2.
1828	336	14	20	72		3.6
1829	275	15	12	69		2.
1830	258	15	16	68		1
1831	239	16	16	65		2.
1832	205	8	24	57		3.
1833	189	7	10	55		13
1834	241	3	12	60		1.6
1835	255	11	12	66		2.
1836	268	10	14	71		27
Total .	3,189	132	191	762	17	228
Ratio pe of Str	er 1000 }	41.	60.		22	30.

"From this table it appears that the mortality among the veterans has been upwards of 41 per 1,000 annually, on the average of the last 12 years, while that of the artillery has been only 22 per 1,000 during the same period. The high ratio among the former may in part be accounted for by their advanced age, nearly one half being between 33 and 40, and the other half above that period of life; but it appears still more attributable to the immediate effects of intemperance, as the records of that corps furnish most startling evidence of the general prevalence and destructive consequence of this vice.

destructive consequence of this vice.

"In a nominal roll, transmitted to the medical department, of those who died between 1825 and 1832 in the veteran companies, we find the following

causes of death recorded :--

	ocation	a from	drin	king	intoxi	
	ation	Princip	Paul	II OIL	140041	
Found dead		sed fr	om s	ame c	ause	
Drowned			•		•	
Contusion			•	•	•	
Died by duse	880	٠.	Fah	Ċon	t Com	, 56, w
By Fevers				Typ	hus	

Total deaths from 1995 to 1999 and and

Died by disease

By Fevers

Diseases of the Lunge

Diseases of the Lunge

Diseases of the Laver

Diseases of the Stomach and Bowels

Dropsy

Dropsy

Feb Cont Com

Pyrexus

Panumona

Asthma

Hepatuts

Interus

Gastrus

Gastrus

Juarrhea

Ascules

Total 56

"Thus little more than one half of the mortality among the veterans has been in any way attributable to natural causes, and as large a proportion might have occurred among persons at the same period of life, even in this country. The returns from this station are not sufficiently complete to admit of our detailing the diseases of the artillery with similar minuteness, nor even to carry the investigation relative to the veterans beyond 1832, but, as so large a proportion of the deaths has been traced to intemperance, many of the admissions into hospital are likely to have been attributable to the same cause, consequently, even if obtained, these returns, when subject to so manifest source of error, could have afforded no accurate data for determining the influence of this chimate on the constitution of our troops

"The fate of so large a proportion of this garrison, by their own imprudence in the use of spirituous liquors, affords a striking illustration of the progressive effect and ultimate consequence of long continued habits of intemperance. In Nova Scotia, for instance, we find, that though this uce prevails to a great extent among the troops, the mortality is as low as can be expected in any climate, even among persons of abstemious habits. But there the troops are, for the most part, men in the prime of life, whose excesses produce little sickness or mortality, while they have the advantage of youth on their side; but they are silently laying the seeds of disease in their constitution, and inducing premature old age and disability, so that by the time they attain the same advanced period of life as the veterans, a repetition of excesses, which might formerly have been

indulged in with comparative impunity, hurries them to an untimely grave.

"In regiments of the line, the number of men at an advanced period of life being but small, the premature deaths caused by drunkenness are lost in the mass, and add little to the general mortality. It is only when a corps is composed of men advanced in years that the ultimate consequences of this vice can be traced to their full extent, or so strikingly manifested as in the present instance."

The highest and lowest of the thermometer and barometer in 1841, registered by Sir R. Bonnycastle, was:—

Months	Therm	ometer	Barometer		
Months	Highest.	Lowest	Highest	Lowest	
January .	44.0	30	30.3	28 7	
February .	426	4.6	30 2	286	
March	470	0.5	30 3	288	
April	56 5	14 3	30 2	28 9	
May	62 0	21 8	30 2	29 1	
June	74 0	298	30 1	29 2	
July	79 5	34 8	30 1	29 3	
August .	783	38 5	30 2	29 3	
September.	753	33 5	30.2	29 3	
October	683	24 0	30 3	29 2	
November .	570	165	30 2	28 9	
December .	445	56	30 4	28 9	

On the 15th February, 1841, during a severe storm from W.S.W., the thermometer fell from 40 to 19, and the barometer from 29.8 to 28.5.

The annual average of the thermometer and barometer for six years was as follows :—

Months	Ther	Bar	Months	Ther	Bar
January . February March .	22 7 42 6 24 0	29 6 29 6 29 7	July . August	57 4 58 3 53 3	29 7 29 8 29 8
April May June	33 8 39 5 49 8	29 6 29 7 29 7	September October . November December	34 0 26 0	29 8 29 8 29 6 29 6

The Newfoundland almanac for 1845 gives the following comparison of the barometrical and thermometerical averages in Newfoundland and England, the averages are the mean of observations for six years—

		Barometer			Thermometer	
Months.	Mean Heigh	Highest	Lowest	Mean Temp	Highest	Lowest
	N E.	N E	N E	N E	N E	N E
January February March April May June July August September October November December	29-68 29-7: 29-62 30-00 29-74 29-8: 29-66 29-8: 29-76 29-90: 29-77 32-00: 29-79 29-83 29-81 29-83 29-81 29-83 29-97: 29-67 29-77: 29-66 29-66	3 30-24 30-82 4 30-34 30-77 3 30-26 30-54 0 30-22 30-38 2 30-14 30-46 7 30-21 30-26 3 30-29 30-41 7 30-27 30-27	28 73 28 89 28 69 29 17 28 82 28 87 28 91 29 20 29 13 29 60 29 22 29 60 29 37 29 39 29 35 29 36 29 32 29 41 29 26 29 74 28 90 29 78 28 98 29 12	227 1975 380 240 439 338 499 395 540 498 587 674 610 683 616 633 578 440 489 2640 393	44 0 52·0 42·67 63 0 47 0 66 0 56 5 74 0 62 0 70·0 79·5 76·0 78·3 82·0 76·3 76 0 68.3 68.0 67 0 62 0 44·50 55·0	30 110 467 210 05 240 143 290 218 330 298 370 348 420 385 410 335 360 240 270 165 230 566 170

CHAPTER III.

GOVERNMENT, REVENUE, POPULATION, RELIGION, EDUCATION, AND CRIME.

GOVERNMENT is administered under a constitution granted in 1832, and subsequently modified in accordance with the responsible system which exists in the other North American The executive council consists of nine members, who also compose the legislative council. The House of Assembly consists of fifteen representatives. St. John's returns three members. Conception Bay four, and The elective the other districts one each. franchise was conferred in 1832 on the whole male population occupying dwelling-houses either as owners or tenants for one year.

Judicature and Police. - The official report on this subject in 1848 is com-

plete:-

"The Supreme Court is constituted under the imperial statute, 5 Geo. IV. c 67, and the Royal Charter issued in pursuance of the statute composed of a chief justice at a salary of £1,200 sterling, and two assistant judges, each at a salary of £700 sterling, secured by Act of the Legislature. The Court has jurisdiction throughout the whole government of Newfoundland and its dependencies, and on the seas and banks to which vessels resort for carrying on the fishery, and has all criminal and civil jurisdiction, as fully and amply to all intents and purposes, as the Queen's Bench, Common Pleas, Exchequer, and High Court of Chancery in England, and is also a Court of Oyer and Terminer and General Gaol The Court sits only at St. John's, the capital of the island, at such times as the governor by his proclamation may appoint. The terms rarely exceed two, one in spring and one in autumn, for a period of about three or four weeks each. All civil actions, in which the matter in dispute exceeds forty shillings, are tried by jury. The practice on the comshillings, are tried by jury. The practice on the common law side is in general the same as that of the Court of Queen's Bench, modified by rules adapted to the circumstances of the colony. The practice on the equity side is governed by a code of rules, subject to which modification, the practice of the English Court of Chancery prevails. In prosecutions for breaches of the laws relating to trade and revenue, the Supreme Court proceeds according to the rules and practice of the courts of Vice-Admiralty. Court alone, is also invested with the power of granting probates of wills and letters of administration, and with the control of the persons and property of infants and lunatics. An appeal lies from the Supreme Court to the Queen in Council, where the matter in dispute exceeds £500. The officers of the court are dispute exceeds £500. The officers of the court are the chief clerk and registrar, at a salary, in lieu of fees, of £350 sterling, (lately reduced from £500) who is also by virtue of his office, Registrar of Deeds for the central district, appointed by warrant under the Royal Sign Manual. A crier, at a salary of £60 ster-A crier, at a salary of £60 sterling, appointed by the chief justice for the time being, both salaries voted annually by the Assembly.

" Circuit Courts -The island is divided into three judicial districts, the central, northern, and southern, within which, respectively, there is a superior Court of Record, styled the Circuit Court, held by the chief or one of the assistant judges of the Supreme Court. This Court has the same jurisdiction, powers, and authority within the district as the Supreme Court throughout the whole island, save in cases of treason, and capital felonies, and in prosecutions for breach of the revenue laws

" The Circuit Court for the central district (or district of St. John's) sits at the town of St. John's only. Its terms generally precede those of the Supreme Court in spring and autumn, and last for periods of about four weeks, and its practice is the same as that

of the Supreme Court.
"The Circuit Court for the northern circuit sits twice in the year at Harbor Grace for periods of about four weeks in spring and autumn; and once a year during the months of September and October at the following places, viz —Twillingate, Fogo, Greenspond, Bonavista, and Trinity, for periods of a week or 10 days at the respective places.

"The Circuit Court for the southern district sits once in the year only, at the following places, during the months of September and October, viz, Harbor Briton, Burin, Placentia, St. Mary's, and Ferryland. "The terms and places of holding the Circuit

Courts are annually fixed by the governor's proclamation. The practice of the northern and southern Circuit Courts is governed by a code of rules adapted to the state and circumstances of the outports. appeal lies from the Circuit Courts to the Supreme Court in matters exceeding £50 sterling. Each of these Courts has a clerk, (who is also the Registrar of Deeds within the district,) appointed by warrant and under the Royal Sign Mannal at a salary of £200, and fees amounting in the northern district to £150 or £180, and in the southern district to less than £50.

"Courts of General and Quarter Sessions are also held at St. John's and the principal outports, the sit-tings of which are regulated by the governor's pro-clamation The English Criminal Law being in force in the colony, these Courts and the magistrates have (so far as the law can be applied) jurisdiction and powers similar to those of the quarter sessions and justices of the peace in England. Trials, however, by jury, in criminal cases, with occasional exceptions at St. John's, always take place in the superior Courts. The courts of Session have also a summary jurisdiction in the recovery of debts for sums not exceeding 40s.; in disputes relating to the curing of fish to the amount of £5, and concerning the wages of seamen and fishermen, hiring of boats, and the supply of bait to an unlimited amount. These courts are presided over by the stipendiary magistrates, of whom there are three at St. John's at salaries of £300 sterling each, two at Harbor Grace at salaries of £180 and £150, and one at each of the 13 other outports at salaries varying from £100 to £150; the total cost being £2,930 sterling, voted annually by the Assembly.

Sheriffs.—There are three sheriffs, one for each of

the judicial districts, at salaries of £750 for the central, £300 for the northern, and £200 for the south-

rn district, secured by an Act of the Legislature. The sheriffs are appointed annually by the govenor.

"Clerks of the Peace.—There are 11 clerks of the peace, one at St. John's at a salary of £300, one at Harbour Grace at a salary of £150, and one respectively at Brigus, Perryland, Placenta, Burin, Harbor Briton, Trinity, Bonavista, Carbonear, and Twillingate, at salaries from £35 to £60 without fees. Their salaries, with the exception of that of the clerk of the eace for St. John's are voted annually by the Assembly. The clerks of the peace are appointed by the governor.

" Constables .- There are, at various places throughout the island, in all, 66 paid constables, at an annual stipend varying from £12 to £45, with the exception of the high constable at St John's, who has £80, and at a total cost of £1,394 sterling, voted annually by the Assembly. These are all the constables of the island, there being none who serve gratuitously.

"Gaolers.—There are six gaolers, one at St John's at a salary of £150, one at Harbour Grace at £90, and one respectively at Ferryland, Placentia, Burin, and Trinity, at £25 each (in heu of fees), voted annually by the Assembly. There being no local rates or assessments in the different districts, the whole expense of the administration of justice, support of the

poor, and for other public services and works, is de frayed out of the public revenue."

Population.—In consequence of the extensive fisheries carried on along its coasts, the population of Newfoundland necessarily fluc-Until recently there has been no accurate census. In 1785, the resident population was estimated at 10,224; in 1806, at 26,505. Since 1822, as follows:-

Years	Males	Females	Total	Marriages	Births	Deaths
, 1827 , 1836	31,746 34,617 41,467 52,274	23,471 32,238	73,705	442	1,675 1,879	

According to a census taken in 1825, of classes, there were of masters, 6,131; mistresses, 6,211; men servants, 11,537; womenservants, 4,210, children under 15 years, The number of French on the 20,204 coast was then stated to be 12,000.

The census of 1836 contains the following:—

		Family							
		No of Dwelling-		Males		Females			Total Popu-
Districts		houses	Under 14 years	14 to 60 years	Upwards of 60 years	Under 14 years	14 to 60 years	Upwards of 60 years	lation.
St. John's		2,781	3,718	4,984	166	3,611	4,123	201	18,926
Conception Bay .		3,521	4,971	5,289	202	4,452	4,842	261	23,215
Trinity Bay		959	1,546	1,565	108	1,372	1,320	110	6,803
Bonavista Bay		801	1,182	1,149	98	1,059	1,010	71	5,183
Fogo and Twillingate		703	1,124	1,059	87	1,101	872	59	4,886
Ferryland .		679	882	1,223	77	758	878	53	5,860
Placentia and St. Mary's	8 .	712	1,024	853	68	989	925	49	4,701
Burin		461	639	664	35	644	605	32	3,140
Fortune Bay		454	680	600	69	623	604	28	3,129
Totals		11,071	15,766	17,386	910	14,609	15,197	864	75,843

The latest census of Newfoundland, dated 1845, gives the following results.

Census of 1845	Males	Females	Total
St. John's Conception Bay Trmity Bonavista Fogo Ferryland	13,177	12,019	25,196
	14,899	13,127	28,026
	4,687	4,112	8,799
	3,943	3,284	7,227
	3,771	2,973	6,744
	2,623	1,958	4,581
Placentia and St. Mary's Burin	3,578	2,895	6,473
	2,845	1,873	4,718
	3,109	1,991	5,100
	52,274	44,232	96,687

At present, the population is upwards of 100,000. At St. John's, society is composed of the same classes as in other British settlements. -Along the coasts many of the colonists employ themselves in farming as well

as in fishing; and since the period that attention has been paid to religion and education—aided by temperance societies—the population has become far more orderly and continuously industrious than they were in by-gone times.

When Newfoundland was first visited after the general discovery of the continent of America, it was found to contain two distinct races of men—the one termed Red Indian, the other the Esquimaux; both are now almost extinct, the former perhaps entirely so, as recriminating hostilities were waged between them and the early settlers, who shot and speared each other whenever an occasion presented itself. The destruction of the Red Indians was not owing solely to the occupation of the island by Europeans, but to the exterminating war of the Mic-Macs.

Military Defence.—There are 11 harbour There is no militia or local corps. The military defence is defrayed entirely by Great Britain, and amounted, in 1848, to £27,474. Fifty pounds are allowed by the colony towards the payment of the duties on wines imported or purchased annually

for the use of the military.

Ecclesiastical Establishment.—In 1839. Newfoundland, which until then had been a part of the diocese of Nova Scotia, was, with the Bermudas, erected into a separate The established church has 32 clergymen, 18 parsonage houses, 64 churches, or places for the celebration of divine service. Of Roman catholic chapels there are 35. There are about 30 dissenting places of wor ship, of various denominations. Of the reformed religion, the class the most numerous, and by far the wealthiest, is that of the church of England; they number 34,281 persons. Next to them, in point of number, are the Wesleyans, of whom there are 14,239 persons: their establishment consists of 13 ministers, and they have 34 places of wor-The Presbyterians of the church of Scotland number 576 persons, and they have one minister resident in St. John's, and one place of worship. There is likewise a congregational church at St. John's, and one resident minister; this section numbers 394 persons. The Roman catholic population number 46,785 persons; they have 42 churches, and a cathedral at St. John's, not yet consecrated. Their establishment consists of a bishop and 24 clergymen. the bishop, a salary of £75 a-year, drawn from the North American clergy estimate, was formerly assigned; but that sum, by a vote of the House of Commons in the past year, was raised to £300.

The census of 1836 shows:-

Districts	Male Pupils	Femal Pupil	Pro Epi	Protestani Dissenters	Rom
St John's		1.379	3.813	1.057	14,056
Conception Bay .		492	6.819	6.333	10,063
Trinity Bay		127	4,098	1,639	1,066
Bonavista Bay		136		461	1,249
Fogo and Twillingate		36	4,022	45	819
Ferryland		105	313		4,798
Placentia and St Mary's		105 90	710		3,985
Burn		12	671	1,096	1,374
Fortune Bay		14	2.812	1,000	-,01 -
			2,012		

Education.—There is a male orphan asylum with 470 children; six grammar schools and academies, under the control of the local government; 40 schools established by the "Newfoundland and British North

American School Society," on the Madras system, with about 2,784 male and female pupils in 1848, to which the local government subscribed £500 per annum; and eight schools under the Wesleyan methodist connexion, to which the local government contributes £250 per annum. There is a "presentation convent school," with 400 female children, conducted by 11 ladies, nuns of a religious order. The superior, Mrs. Risevare, superintends under the Roman catholic bishop for the time being. Dr. Fleming, the present Roman catholic bishop, has, it is said, hitherto supported the establishment, with the exception of an annual grant from the colonial legislature. Since the fire of 1846 the number of pupils has not exceeded 500 A want of accommodation alone prevents a much larger attendance, the Blue Book for 1848 states, that

"Under an Act of the local Legislature for the encouragement of education in the colony, elementary schools have been established in every district in the island By the provisions of this Act of the Legislature, power is given to the governor to constitute in each district two separate and distinct Boards of Education, Roman catholic and protestant, by nominating seven respectable inhabitants of each creed to each section. One resident clergyman of each persuasion being ex office a member of his respective Board, and to their care the regulation and supervi-

sion of these schools is entrusted.

"The scheme for the government of these schools has been found to be both efficient and satisfactory. The amount expended in furtherance of this object for the year 1847, was £6,067. His Excellency rightly adds, that in the present state of the great mass of the population of the colony, consisting, as it does, of simple and hardy fishermen, the subjects of instruction must necessarily be of a simple and elementary nature. For the benefit of this class the colonial grant is given, a separate provision having been likewise made for those, whose children require a higher education, it being the intention of the Legislature to provide for the education of the sons and daughters of fishermen; of children that are to live the same simple, laborious, and honourable life as their parents are now doing. For it should not be lost sight of that the instruction must always have reference to the station in life which the child is hereafter to fill, the two-fold scope and object of all education being first to impart to the child that practical knowledge of his duty to God and man, and of the grand purpose of his existence here, which may, through his mercy, ensure his present and eternal happiness, and secondly, to convey that secular instruction which may best enable him to perform the part assigned to him among his fellow-men for their mutual good."

The census of 1845 shows 209 schools:—

Conducted by Masters | Conducted by Mistresses

Male	Female	Male	Female	Total
Pupils.	Pupils	Pupils	Pupils.	
5,468	3,574	358	866	10,26 6

The Press and Institutions.—There are cial, £6,580; police and magistracy, £5,574; twelve newspapers published in the colony, viz.—ten at St. John's, and two at Conception Bay. There is a chamber of commerce, company, two public libraries, fire companies, agricultural, benevolent, law, and other societies, &c.

Roads and bridges are under construction or repair in every district of the colony, and a large part of the revenue is being devoted to this important purpose. A colonial legislative building is constructing at St. John's, at an estimated expense of £15,000, and a market at £7,000; £9,000 had been spent on the former, and £4,000 on the latter up to 1848.

Crime.—There are three prisons, viz., at St John's, Harbour Grace, and Ferryland; and the number of prisoners in confinement at Michaelmas, 1848, was nine males and one female; of felons there were, tried, males, five; females, three. Untried, males, six The number of debtors was 19. The tried misdemeanours were, males, 78; females, 3. Untried, males, 31; females, one. Of the total number of prisoners committed during the year 17 were under 18 years of age; of those who could not read or write, 34 were

Revenue.—The sums collected in 1828 from customs, duties, rent of crown lands, licences, &c., amounted to £15,972, in 1836 to £35,222, m 1843 to £50,884; m 1847 to £69.049.

males and 6 females.

Expenditure

The revenue of Newfoundland for 1848 and 1847 was-

Heads of Revenue	1848	1847
Under imperial acts	£ 5,783 48,154 1,627 1,156 574 1,204 800	£ 6,211 52,127 1,728 382 534 832 800 1,885 4,160
	59,300	69,049

The civil department cost, in 1848, £5,921; Customs estimated, £7,580; Judi-

74,873

62,711

ecclesiastical, £800; legislative, £119 (in 1847, £3,317); printing and stationery, £492; gaols, £721; coroners, £200; relief an association of underwriters, a gas-light of poor, £9,700; education, £5,128; interest on loans, £4,328; loans paid, £5,400; and various other items, including rewards amounting to £25, for killing wolves. The governor has a salary of £3,000 a-year, with a house, and £200 for fuel and light, and a private secretary £200; colonial secretary, £500; treasurer, £500; surveyor-general, £500; collector, £800; chief judge, £1,200; two assistant judges, £700 each, attorneygeneral, £450; registrar of supreme court, £350; sheriff of central district, £750: ditto of northern, £300; ditto of southern. £200; three stipendiary magistrates at St. John's, £300 each; two at Harbour Grace, £300 and £180 each: one at Carbonear, Brigus, Trinity, Twillingate, and Bonavista, each £150, and eight others at salaries of £100 to £130 each. At St. John's, a high constable, £80, eight other stipendiary constables, £360; and in the other districts, stipendiary constables, whose salaries amount to £954 per annum. The Protestant bishop has £500, the Roman catholic bishop, £300. The Protestant bishop receives also £900 from the "society for promoting the gospel in foreign parts"

> A recapitulation of the establishment in 1848, shews —

Heads of Expenditure	Paid by Gt Britain	Paid by Colony
	£	£
Civil establishment		10,321
Contingent expenses .		3,180
Judicial		11,134
Contingent	1	1,020
Ecclesiastical	800	-
Miscellaneous		36,096
Pensions		159
Totals	800	61,911

Coins.—British money and Spanish dollars, established by the governor's proclamation at 4s 4d sterling, but passing current at 5s. The amount of coin in circulation is estimated at £80,000 to £100,000. greater part of the trade of the colony is effected by barter.

Paper Money —Quantity not known; the bank of British North America has a branch at St. John's, and it is the only bank in the island.

CHAPTER IV.

VEGETABLE AND ANIMAL KINGDOMS, AGRICULTURE AND FISHERIES, COMMERCE. TARIFF, SHIPPING, &c.

THE VEGETABLE KINGDOM differs but little feet high. from that of the adjacent continent. The is merely a bush. interior is supposed to be covered with vast same parallel on the main land, owing to the any other part of the island places to dry the fish on, is enormous as to admit air from beneath. poplar, trembling or aspen leaved, and the rocky ledges.

The dog wood is plentiful, but

The timber is larger and more varied at forests; on the east and south coasts the St. George's Bay, the Bay of Islands, and in trees are smaller than those growing in the the country around the Grand Pond, than in The Bay of exposure to the sea and tempestuous wea- Islands has long been a valuable resort for ther, but on the W. and N.W. the trees are the ship builder, and the whole coast to the thickly planted and of considerable size. northward to the beautiful double bay of Of the conifera, the most prominent are the Ingornachoux is equally capable of supplying spruces, viz. the pinus balsamea or Canada timber for the same purpose. The fir, pine. balsam spruce, which reaches the usual ash, beech, burch, and juniper (the latter not height of its species, 30 feet; the pinus the shrub of that name, but a larch) are all nigra, or black spruce, grows well at St to be obtained in the interior of the island. George's Bay, as does also the pinus alba or The country about the river Humber is white spruce. The pinus rubra, red pine, densely covered with fine woods. Dr. Chapgrows about 30 feet in height. The pinus pell describes the banks of the St. George's penidula, black larch, and pinus microcarpus, or Main River as composed of loose earth, red pine, (the larix Americana of Michaux), covered with various lichens, and surmounted are the most useful of the island forest with whole forests of black and white spruce, trees. The timber of the black larch is very larch, fir, and birch. There is an immense solid, strong, and lasting Excellent brigs variety of recumbent and trailing evergreens, and schooners are built in Newfoundland, and the berry-bearing shrubs clothe every entirely of the island timber, except the swamp and open tract; the whortleberry, planking, which, as there are no saw mills cowberry, hawthorn, partridge berry, trailing to prepare, can be procured cheaper from arbutus, raspberry, strawberry, and a small the continent. The consumption of spruce kind of prickly gooseberry—carpet the soil and pine in the island for fishing stages, or in desert places. Sarsaparilla (aroha medicaulus) is produced in the woods. Mr. Jukes These erections are formed at the edges of notices that after the forest is burned down, harbours, by uprights of great length, and a crop of wild raspberries springs up, and is cross beams from the hill side, forming a succeeded by birch trees; and he also speaks platform, which is then loosely covered with of good currants, raspberries, and gooseberries the boughs and branches of the pines, so growing in the garden hedges, and wild in The steep the woods "At one part," he says, " of iron-bound coast renders the construction of Lark Harbour (Humber Sound) where there these stages absolutely necessary for the had been one or two temporary huts and prosecution of the trade; the abundance of cleared spots, the raspberries were in the timber enables the fishermen to erect them utmost profusion, and were equal both in at every available spot. The birch tribe size and in flavour to the best garden raspare all common, the beech and elm are berries of England. Currants were found rare, the Ostrya Virginica, iron or lever pretty plentifully, also chiefly on the cliffs, or wood, exists on strong lands. The balsam wherever there was a broken bank with They were both red and Lombardy poplar, flourish pretty well. The black, and of a different species from our Canadian yew is sometimes of considerable English current, being covered over with size, the willow thrives well and attains a small spines like the rough red gooseberry; large size; the mountain ash grows 15 to 20 the branches, too, had occasionally a soft thorn. The flavour was rather harsh, but still very agreeable, especially when made the "hearts-ease" once planted in a garden into puddings." The wild gooseberries are more rare: the fruit is small and sweet, precisely like the small rough red English gooseberry. The wild or choke-cherry is a very ornamental tree, the bunches of minute yellowish-white fragrant flowers are followed by long pendulous grape-like fruit, placed on a stalk resembling currents. The fruit is first of a dark red colour, and when ripe, black,-pleasantly astringent, and devoured greedily by birds. The Kentish cherry thrives with care at St. John's. The wild plum, and the prunus depressa are common in the woods. The hop thrives near gardens, the melon is reared, and the cucumber and vegetable marrow without much difficulty. The garden strawberry and raspberry are excellent. The apple, pear, and plum do not arrive at great perfection on the east side of the island; but cabbages, cauliflowers, brocoli, lettuce, spinach, cress, beet, parsnips, carrots, peas, Windsor beans, French beans, celery, thyme, mint, savory, and all the British culmary vegetables and herbs arrive at great perfection. Sir R. Bonnycastle says in reference to the remarkable yield of potatoes, that "from one rowan potato cut into pieces he had a crop of 108 good sized tubers." The potato disease reached Newfoundland in 1846-7, and caused great destruction.

There are three species of rose, natives of Newfoundland; this beautiful flower grows in rich profusion; rosa blanda, with its slender purple-red branches, flourishes in the vicinity of streams. The moss, damask, maiden's blush, and Provençe rose thrive well in gardens. The moose wood, or which contains so much saccharine matter heather wood shrub (dirca palustris) produces yellow flowers, and a small yellow Natural red and white clover, and the vetch, berry; its bark is flexible, strong, and well cover the sandy banks near the sea, in Newadapted for withes to tie packages Violets foundland and Labrador, to such an extent, are common, but modorous In the tribe of especially in Labrador, that vessels requiring lilies, says Sir R. Bonnycastle, "Solomon in all his glory exceeded not the beauty of rich natural crop those produced in this unheeded wilderness, they refer to but a part of the vegetable L. Philadelphicum is almost the same in ap- kingdom of Newfoundland, are sufficient to pearance as the common orange hly; L. Su- disprove the assertions by which it was so perbum ornaments some of the ponds, and is long misrepresented as a barren region of orange with dark blue spots; L. Canadense fog, ice, and snow, adapted only for the also grows in wet places, and has a collection temporary residence of cod fishers and seal of yellow or reddish flowers maculated darkly The Iris or wild flag, is a superb flower, and very common in Newfoundland, its rich fox, hare, marten, dog, wild cat, rat, and blue dotting every marshy place in the flower- mouse, constitute the chief land quadrupeds

The guelder rose is a native of the country: are with difficulty extirpated. The lily of the valley, Solomon's seal, the campanula, convolvulus, Jacob's ladder, honeysuckle, the painted herb, fox-glove, columbine, wild lupine, potentilla, cowslip, yellow and white water-lily, and other flowers, charming and common to England, are found either wild or cultivated in Newfoundland. tered gardens, the dahlia does well by covering its roots in winter. Perennials thrive better than annuals, on account of the shortness of the summer. In general, the flowers are larger and more spread than those of Europe, but not so odorous. The "pitcher plant," or lady's saddle, with its large, handsome, purple flowers, is the natural production of the swamps. The leaves are tubular. or pitcher-shaped, and always filled with about a wine-glass of the purest water the receptacles are lined with inverted hairs, which prevent the escape of insects, many of whom find their graves in the pitchers, and are supposed to serve for the food of the plant. The lids expand or shut, according to the necessities of the plant, and the pitchers are of so strong a texture, that they bear heat enough, for some minutes, to boil water in them.

There is a very great variety of European and American grasses, the juncus, or reed tribe, are numerous, and the lichens and ferns afford a fine field of research for the botanist. One of the most beautiful of the ferns, termed the "maiden hair," (adiantum pedatum,) is a little trailing plant, bearing a small white fruit, like the egg of an ant, as to be lusciously sweet when preserved. fodder, send their boats ashore to gather this These details, although hunters.

ANIMAL KINGDOM .- The deer, bear, wolf, Sisyrinchium anceps, or the of Newfoundland with which we are acblue-eyed grass, also assists the rich display." quainted. Of the deer tribe there are several all over the country; the foot-marks are nial government. like those of a cow, but wider and larger. The moss on which they feed is abundant. During the early part of summer they separate into pairs, and hide themselves in the recesses of the woods. In September and fur. October they are in the best condition, and migrate from the north towards the south, swimming in herds across the lakes and arms of the sea. Formerly, the herds that came to the south coast are stated to have are considered by some farmers excellent been enormous. Mr. Bagg, of La Froile, says he has seen "thousands," and has killed seven at one shot, with heavy slugs, from a large sealing gun. About March they resoft, juicy, and tender, and is sold in St John's, during winter, for fifteen shillings a quarter. This useful animal might be domesticated in Scotland.

Black bears are becoming scarce; they

water Bay, walked, on a winds evening, up any sheltered sleeping-place. lowed him one on each side, in order to to die unobserved. come on his track should he diverge, while they met occasionally, to be sure he had not of ponds and marshes. passed them. A wolf is more than a match

varieties: the caribou, or rein-deer, is a very deer and some young cattle are destroyed by large animal, with immense antlers; their these rapacious animals, for each of whose paths, which resemble sheep-walks, are found heads a reward of £5 is given by the colo-

> The Fox is tolerably abundant: besides the common yellow or reddish, there are the black, silver, blue, and white foxes. The black and silver are much valued for their

> The Hare in some parts is plentiful, of a large size compared with those in England: it becomes of a dirty white in winter.

> Martens are now becoming scarce; they eating, but taste too much of spruce and other woods.

The Dog, so celebrated for its beauty, sagacity, and fidelity, appears to be much migrate towards the north. The flesh is neglected in Newfoundland; at St. John's and its neighbourhood they are described by Mr. Jukes as the most ill-looking set of mongrels that can be conceived. In the outports the breed is said to be better preserved. Colonel Sir R. Bonnycastle says, are the long-legged variety, with a pointed that at the Twillingate islands on the north muzzle, of a terrier's spot colour, and very coast there are still some splendid dogs to large. They live principally on berries; will be found: they are of two kinds, the short run from a man, and are not savage, except wiry-haired Labrador dog, and the long, when wounded. They appear to be fond of curly-haired Newfoundland species, genepork and molasses; and, in winter, will ap- rally black, with a white cross on the breast. proach lone houses in the woods in search of Their habits adapt them as much to the The white, or polar bear, occasionally water as to the land. The common dogs lands from the ice at Newfoundland. A used in the catamarans are of every possible fine one was recently killed near St. John's, cross with these, and of every variety of while endeavouring to make his way across colour and fur. They all appear to prefer the country, from the east to the west coast. fish to any other food, and seem stoically The wolf is a large and very powerful ani- indifferent as to whether it be fresh, salted, mal, grey on the back, and yellow beneath. or putrid. The spotted mahogany-coloured They rarely, if ever, attack men, or even short-haired Labrador dog, is said to be the children, but will dodge the steps of a tra- most attached to man, and the best house veller—one or more on each side of him— guardian; the other variety with bushy, curlready to take advantage of any accident ing tail, the best water dog; both endure which may befal him. Mr. Lane, of Fresh- the extreme cold, and prefer a snow bed to The whole Gambo Pond, on the snow, to visit a person race appear to be particularly fond of chilliving at the head of the pond. On his dren: but the Labrador dog, if not well fed, return, the next day, he found the tracks of is a sheep biter and a dexterous thief. Newtwo wolves, one on each side of his own foundland and Labrador dogs, when removed foot-marks, who seemed to have methodically to a warmer climate are subject to glandular accompanied him. The tracks, every now swellings in the ear, which require lancing; and then, separated for about 100 yards; they are seldom attacked with hydrophobia, then, at regular intervals, closed in again and it is said when ill and past cure they on his track. They appeared to have fol- frequently retire to woody or secret coverts

The Beaver is found only in the interior

The Musquash (fiber zibethicus) or musk for a Newfoundland dog. Large numbers of rat, whose habits are like those of the beaver, is abundant; the tail is thick and elegant bird, with a swan-like form and a round, whereas the tail of the beaver is black ring round its neck; it is easily do-like a trowel.

In winter the tail is thick and elegant bird, with a swan-like form and a round, whereas the tail of the beaver is black ring round its neck; it is easily do-like a trowel.

The common Rat is destructively numerous. The wild Cat is found only in the interior. Birds are numerous in the interior; among those known are the osprey or sea-eagle, the hawk tribe, owls in amazing number and variety, particularly the snow white and the light gray; among the pie family, the raven as elsewhere attends the labour of man, the crow frequents the fields, and a variety of the blue jay is known. Two kinds of woodpeckers are occasionally seen, one the speckled The Newfoundland blackbird is supposed by Sir R. Bonnycastle to be the rosecoloured ouzel, and as called in the island a robin, though as large as a blackbird. martin stays about ten weeks in summer; the vellow willow wren is very common, and the little wren is seen, the ferruginous thrush, fly-catcher, vellow-breasted chatterer, little black-cap, titmouse, the grossbeak, the snow bird resembling an ortolan, and the sparrow, the latter not of the true genus, are all, with various other species of the winged tribes, found in Newfoundland Ptarmigan are in abundance, they are very like the Scotch grouse, and there is said to be little specific difference between the red grouse, gorcock or moorcock of Bewick, (tetrao Scoticus) and the ptarmigan of Newfoundland, which must not, however, be confounded with the arctic or northern ptarmigan (tetrao lagopus), both turn white in winter; but the Newfoundland bird has a rufous brown plumage, mixed with white in summer. Three of these birds shot near Trepassy, on the 10th of May, weighed together five pounds thirteen ounces and a half. One cock bird, shot 21st January, with nearly white plumage, weighed twentyeight ounces. They are much used for the table, roasted and made into white soups. Of the grallæ there are two or three species; of plover, the golden and the grey; the bittern, long-billed curlew, snipe, whimbrel, and sand-piper are common.

Of water birds there are the Canada and snow goose, blue-winged teal, shoveller or great brown duck; widgeon and mallard frequent the interior ponds; and varieties of inflated and drawn over the eyes, and is nearly sea birds, among others the gull, lazy cormorant, baccalao, pin-tailed duck or sea pheasant, eider duck, kittiwake, tern, ice-bird or sea dove, goosander, noddy, divern the old male animal having, in addition to a number of spots, a broad curved line of the Newfoundland goose is a remarkably connecting blotches proceeding from each

black ring round its neck; it is easily domesticated but does not breed. In winter many arctic birds frequent the coast; but the large auk or penguin (alea impennis), which less than half a century ago was a sure sea-mark on or within the edge of the Newfoundland bank, has disappeared, from the destructive trade carried on for their eggs and skin. They are about the size of a goose, with a coal black head and back, a white belly, and a milk-white spot under the right eye. Their wings are more like fins, and have down and short feathers on The aucks are said to have no them. thumbs like the South Sea penguins.

Reptiles — There is a total absence of venomous reptiles; even toads, frogs, or lizards, which are abundant on the neighbouring continent, are unknown in Newfoundland

Insects, such as mosquitoes, stinging midges and flies, are in myriads.

Amphibia—The morse or sea-horse (trachicus rosmarus) formerly abounded on the coast of Newfoundland and on the strats of Belle-isle, but has been destroyed for its blubber and hide, the latter being used for coach traces The morse is larger than an ox, has been seen 20 feet long, covered with short yellow hair, and has two cannot tusks in the lower jaw, 2 feet long, pointing downwards

The seal abounds around Newfoundland. they are killed on the ice with clubs, in thousands. The cries of a young seal are like those of a child in extreme agony, and are something between shrieks and convulsive sobbing. These cries seem to be the amusement of the young seals when left alone on the ice; and the same cry is used to express enjoyment or pan, fear or defiance. The young seal is of a dirty white The common seal (phoca bitulina), colour. is of a yellowish-grey or brownish, with yellow spots, becomes white from age, and is from three to five feet long. The hooded seal (phoca crystala) is of a dark grey colour, with many irregular shaped spots and blotches of considerable size, seven to eight feet long, with a piece of loose skin on it which can be inflated and drawn over the eyes, and is nearly ball proof. It has the power of distending pearance. The harp seal is so named from

shoulder, and meeting on the back above sworded, 18 to 16 feet long, others double her young on the ice and returns from fishing occasionally to suckle them; the milk vellowish-white colour. per" seal is rarely seen off Newfoundland; it is said to attain a size of 12 to 15 feet.

Cetacea. The whale, grampus, and porpoise abound. The true Greenland balænæ or toothless whale, of which seven species Newfoundland waters they vary in size from 45 to 70 feet, and the quantity of oil yielded is in proportion to the longest blade of whalebone, one foot giving one gallon and a half, and 12 feet 21 gallons. The inferior jaw bone sometimes measures 25 feet. It has a black skin; the gray whale is longer than the above mentioned. The balænoptera, or finned whale, with a horny fin on the lower portion of the back, is sometimes The beaked more than 100 feet in length. whale is only about 25 feet long: it has pouches or folds of fat on its throat and The broad-nosed whale attains a huge length. The cachelots, or whales with teeth in their lower jaw, have an immense head, which is frequently in size one-half or more than a third of the whole animal, the physeter species attains an almost incredible length; on good authority it has been seen 144 feet in length; the usual size is 60 feet. It feeds on the hump fish, cuttle, dog-fish, and even small shark; the toothless whale feeds on molluscæ, or gelatinous matter. The toothed whale furnishes spermaceti, which is found below the nose or snout. The trumpo, blunt-headed, or New England cachelot, has an enormous head, the upper jaw has 18 teeth, is five feet longer than the lower; length of animal 60 feet; it is very ugly, bold, and swift, and opens its huge jaws in fight like the hippopotamus. It yields a very fine, pure oil, which is obtained in cells near the brain, and is procured by boring the scull. On the coast of Newfoundland, in the Gulf of St. Lawrence, and on the Labrador shore, cetacea of all sizes are seen. the mast of a ship, down to the porpoise.

the tail, something like an ancient lyre. sworded, 12 to 25 feet long. The Esqui-The female has not the harp; she leaves maux value their flesh and oil as aperients. The sword grampus, a species of dolphin. has a singular scimitar-shaped high dorsal is of a thick creamy consistence, and of a fin; long, bony, and broad at the base. He The "square fip- is about 30 feet in length, ferocious, has 90 cylindrical teeth, 11 inches above the gum, and a fierce persecutor of the whale and seal. In Sir R. Bonnycastle's volumes there is a detailed and very interesting account of the cetacea, of which tribe the author seems have been observed, do not often visit the to have acquired much information in the Arctic and Northern Atlantic seas.

Fish.—The banks of Newfoundland swarm with almost every variety of the finny tribe, of which the smaller sorts serve as food for the omniverous cod. "The incredible shoals of lance, a small, elongated, silvery, eel-like creature, the interminable armies of migratory herrings, the hosts of capelin which are met with in their several seasons, cause the seas to boil and glitter in their rapid paths. producing the effects of currents upon the bosom of the trangul deep." The locusts that darken the air, in the countries subject to their devastation, are not to be compared in numbers to the periodical journeyers of the Newfoundland seas. The capelin, (salmo arcticus,) which is the great object of attraction to the cod, whale, &c., is about seven inches long, with a slight, elegantly-shaped body, greenish back, and silver belly, and some of their scales tinged with red. The male fish has a rough fascia, beset with minute pyramidic scales, standing upright, like a pile of plush above the lateral fins. Sir R. Bonnycastle says, that when the female seeks the shore for the purpose of depositing spawn, she is taken between two of these ridged males, and they all three rush violently onwards, the compression excluding the ova: two, three, and even as many as ten have been observed thus glued together by these villous crests. The eggs are deposited among the smaller fuci and confervae, on which they feed. The dorsal fin is in the middle of the back; tail forked; scales minute. In taste, it resembles the smelt. This beautiful little fish, in June, and early from the physeter malar, or great finned in July, crowds into the shores of Newcachelot whale, with its huge back fin, like foundland in countless myriads to spawn. Wherever there is a strip of beach at the The whale fishing is now becoming an im- head of a bay, every rolling wave strews portant banch of trade for the colony. The the sand with hundreds of capelin, leapmonadons or narwals, the unicorns of the ing and glancing in the sun till the next deep, are furnished with a piercer or tusk, wave sweeps them off and deposits a fresh and called sword fish; some are single- multitude: the white foam, and the glittering colours of the fish, form a beautiful or six active individuals club together and sight.

Mr. Anspach, who resided in Conception Bay, thus describes the arrival of a capelin schule, or shoal :--

"It is impossible to conceive, much more to describe, the splendid appearance, on a beautiful moonlight night, at this time. Then its vast surface is completely covered with myriads of fishes, of various kinds and sizes, all actively engaged, either in pur-suing or avoiding each other; the whales, alternately rising and plunging, throwing into the air spouts of water; the cod-fish, bounding above the waves, and reflecting the light of the moon from their silvery surface; the capelins, hurrying away in immense shoals, to seek a refuge on the shore, where each retiring wave leaves multitudes skipping upon the sand, an easy prey to the women and children, who stand there with barrows and buckets, ready to seize upon the precious and plentiful booty; whilst the fishermen, in their skiffs, with nets made for that purpose, are industriously employed in securing a sufficient quantity of this valuable bait for their fisherv.

There are several varieties of the cod-fish on the Newfoundland shores; the principal fish caught is like the gadus morrhua of Linnæus, or ash-coloured cod; the gadus carbonarius or coal cod (seyfish of Norway) is largely dispersed, and the best eating of the two; it sometimes weighs 20 or 30 pounds The fish caught on the bank are supposed to be better than the shore fish. The bat used for the cod, when taken with hook and line, is the capelin; when the capelin leaves in August, the young squids or cuttle-fish are caught up for bait, and when their season is over, the autumnal, or "fall," herrings are used; shell-fish, both fresh and salted, is used for the hook. Sometimes food is so abundant, the fish will not bite, they are then taken with a jugger or plummet of lead, armed with hooks, and drawn quickly up and down in the water, by which the cod is attracted and struck with the hook as he swims round the jigger: this mode is deemed objectionable, as more fish are wounded than caught some places the cod is taken in nets or sieves The cod fishing closes in September; the quantity one man may catch during the season is very great, as the fishers say they have the chance every day of catching five pounds worth of fish. A quintal of dry fish is made from about 300 weight of "green" or fresh fish, and the quintal is worth about 15s., consequently it would require a man to catch nearly a ton weight to produce a quantity of the value of £5: in other words he must catch 224 cod of an average weight of 10 pounds each, in one day. The wages are generally £20 for the summer, or five known. The first relaxation was made in the olden

catch cod to the value of £100. families do not cure the fish themselves, but take it as it is caught to the stores of merchants, whose men cure it for the proprietors of the stores. The cod constitutes the wealth of Newfoundland; notwithstanding the myriads which have been taken by Europeans during the last two centuries, it seems as abundant as when the banks were So prolific is the fish, that the first visited. spawn of a single cod if unmolested, would, it is supposed, in a few years fill the ocean. Salmon fishing is followed during the summer by several families; the dog fish is caught for the sake of the oil contained in his liver; the herring fishery is increasing, and the capelin is used for the food of man, as well as for bait for the cod. Of 22 known kinds of mackerel only one frequents the arctic regions. The yellow mackerel, which abounds in the Gulf of St. Lawrence, is supposed to cross the Atlantic from the African coast The gigantic mackerel or tunny fish is occasionally taken. Herrings appear in vast numbers The mullet (mullen barbatus and ruber), frequent the coasts. lance is a long thin fish like a sand eel; the sea on the banks sometimes seems alive with this little creature, which serves many other fish for food. The lakes and rivers in the interior contain excellent fish, so that the inhabitants possess at least abundance of this description of food, on which all the animals in the island, from the cow down to the domestic poultry, feed.

AGRICULTURE.—The governor, Sir G. Le Marchant, has devoted great attention to this subject; and his report to Earl Grey, in 1848, is very valuable. It shows that Newfoundland has not the inhospitable climate and barren soil which has long been supposed peculiar to the place:-

"It may be said that the cultivation of the soil made little or no progress in Newfoundland until after the peace with France in 1814. The sole occupation of the resident inhabitants was confined to the fishery, an opinion generally prevailed, that the soil and climate raised impassable barriers to It was further considered, that the enagriculture couragement of settlement and agriculture, even if it were practicable, would be injurious to the interests of the fishery, in consequence, every obstruction and impediment was thrown in its way. It was an offence against the laws of the fishery to clear, to inhabit, or to cultivate the waste lands of Newfoundland Before that period there may have been some few gardens for vegetables, and a few spots of land cleared for raising potatoes. Farming, as an occupation, or as a means of employment or subsistence, was un-

system regarding the land in 1815, by governor Sir Richard Keats; he was authorized to make small grants of land, limited from two to four acres. Many lots of ground, now so valuable in the vicinity of St. John's, were granted during his government. From 1818 to 1824, governor Sir Charles Hamilton, the first resident governor, made some larger grants of

land, and on more favourable terms.

"Sir Thomas Cochrane commenced his government in 1825. Immediately on his arrival he entered warmly into the subject of the agricultural improvements of the colony; made liberal grants of land from 500 to 250 acres. During his government, the first main road that was opened in the island, the road from St. John's to Portugal Cove, was projected and completed. Much land was cleared, and very considerable progress made in agricultural improve-

"His excellency Captain Prescott followed in his footsteps, he gave every facility and every encouragement in his power to the general clearance and cultivation of the land. Through his recommendation to Her Majesty's government, much of the obstructions that remained to the obtaining of land was removed, and it may be said, that during his government, hundreds of poor industrious persons were located on land which now affords a comfortable support to themselves and families. The large amount of appropriations, during his government, for the forma-tion of roads, greatly facilitated the progress of agriculture, not only the margins of the various roads branching from St John's, but likewise in Conception Bay, Trinity Bay, Bonavista, Ferryland, Prepassey, St. Mary's, Placentia, Burin, and in all the inhabited districts of the island, no matter where, a road was opened; cultivation and population was certain to follow in its course.

During the administration of his successor, Sir John Harvey, large votes were recommended to the Assembly for roads and bridges. These public improvements rapidly progressed, as a matter of course cultivation and settlement followed The land, particularly in the neighbourhood of St John's, doubled in value. Agriculture became a recognised and most important branch of industry, a source of employment and subsistence to a large portion of the people

"At present it will be scarcely considered necessary to adduce arguments or proofs as to the capability of the soil of Newfoundland for agricultural purposes, as a general principle it may be safely laid down that in no case where due skill and industry have been employed, have they failed to repay the husbandman's toil. Farms have been successfully cultivated in the districts of St. John's, Timity, Bonavista, Conception Bay, St Mary's, Placentia, Burin, Fortune Bay Fortune Bay And in every part of the island, wheat, oats, barley, potatoes, turnips, have been produced of the best quality.

"It may be said without fear of contradiction that in no instance, when industry and skill have been used in clearing and cultivating the soil of Newfoundland, has it failed to make an ample recompense. The most successful cultivator is the man who works himself. The cultivators of small portions of ground were truly the pioneers, who were first in making inroads on the wilderness. The judicious expenditure of capital will also meet a profitable and certain

"When it is taken into consideration the difficulties and prejudices that the cultivator of the soil had to contend with, the surprise should be, not the

slow progress that agriculture has made, but that so much has been accomplished. Necessity, more than choice, drove the inhabitants to the cultivation of the soil. As long as the fisheries made such profitable returns, and enabled the fisherman to support himself and family for the whole year from the fruits of a few months' employment in the fishery, he never would voluntarily turn to the laborious task of clearing the wilderness The unequal competition of the French and the Americans reduced the profits in the fishery; it scarcely paid its own expenses. The only alternative left to the inhabitants was either to emigrate or to cultivate the soil. Whatever proportion of the fisheries that remain to the British has been preserved by the auxiliary support which the inhabitants were enabled to obtain from the cultivation of the soil.

"The cost of grubbing up and cultivating the waste land of this country must necessarily vary much according to the quality and condition of the land itself and its locality. That in the vicinity of the town of St John's has more of rocks and stones on the surface than in some other parts of the district, and the cost of grubbing, clearing rocks and stones, burning stumps and roots, ploughing, harrowing, and manuring for a crop cannot be safely calculated at less than £13 sterling per acre, out of which may be deducted the net value of a fair crop of oats, potatoes, or turnips, which the land will yield the first year from the manure and burnt ashes In some other parts of the district land may be doubtless grubbed up and cultivated at much less expense, being comparatively free from stones, and requiring little labour previously to the plough being used. It may be observed that the land in this portion of the island is, generally speaking, of a light, gravelly nature, easy to work and cultivate, soon warming with the heat of the summer, and quick in forcing forward the crops when planted. On the other hand, it appears to require a liberal supply of manure to put it in condition, and from its porous nature, repeated applications of manure are desirable until the land is laid down to grass, which yields crops of hay, of great abundance, as also of excellent quality. When again ploughed, it is generally much improved in texture and quality, and will carry grain crops well, especially if a small supply of lime be harrowed into the surface, for this latter article is at present too dear to admit of the free use of it as in England At no distant period it may be hoped we shall have plenty of lime brought from other parts of the coun-

try, where it exists in great abundance
"The grain crops of last year, though in some instances sown late, all answered remarkably well. The governor was assured on authority that could be relied on, that on one of the farms in the vicinity of this town, two bushels and two gallons of beer barley were, on the 19th May, sown upon three-quarters of an acre of potato land, and from it were threshed 42 bushels of excellent quality, being at the rate of 56 bushels per acre. Of which 30 bushels were sold at 5s currency per bushel for malting and brewing, and the crop paid the party better than any crop grown on an equal space of land for many years. Wheat has also been known on another farm in this neighbourhood to produce at the rate of 50 bushels per acre, and this is a heavy crop for any country. This large produce may be in a great degree attributed to the repeated applications of fish and other

manures to the previous crops of potatoes. "In the past year, 1796 acres of land have been sold, the price at auction averaging about 10s. per acre. The number of separate grants, into which these lands were divided, amounted to 176. Large supplies of seed (wheat, barley, and oats,) have been imported by the government, as well as vegetable and various sorts of garden seeds; these will be distributed in the course of this spring amongst the cultivators of land in the colony; and a committee of gentlemen is appointed, to whom such distribution has been entrusted. In the hope of adding a stimulus and an encouragement to the further cultivation of the soil, as also of inducing the working farmers to avail themselves of these opportunities, prizes have been offered for the clearence and planting of new virgin land; as also for the best crops of wheat, barley, and oats.

"Two mills, adapted for the grinding of meal as well as grain, have likewise, with the assistance of government, been established; the one in this town, and the other in Conception Bay. By a steady perseverance on the part of the people in the prosecution of measures such as these, abundance and plenty will again be restored to this island, and the more general extension of agriculture will, I am confident, be attended with vast benefits to the present and future

generations of Newfoundland.

"Horticultural—It has been fiequently remarked by strangers as well as readents, that the culmary vegetables grown here are not inferior to the best of their kinds in Europe, doubtless owing to the rapidity with which vegetation takes place, when the frigid temperature of winter is dispelled by the genial heat of summer weather, a change which, some seasons, occurs very suddenly. All ordinary garden vegetables are grown with as little trouble as in England. Among those most commonly cultivated are lettuce, endive, radish, asparagus, seakale, beets, turnips, cabbages, cauliflowers, peas, beans, both French and broad, all of which attain maturity with common care, although, in very few instances, have they much of that skill and good management bestowed upon them which, in gardens in England, appears almost a matter of course.

"Melons and cucumbers are grown every year in slight hotbeds, and the latter may be transplanted from the seed-bed to the open air, where they will generally produce abundantly. Turnips, cabbages, and all of the Brassica tribe, have, in the early stages, numerous enemies in the turnip-fly, caterpillars, &c , but, independently of this, the climate and soil are fitted to produce large crops of them It may be observed, that many of the perennial and other herbaceous plants of Britain bear the severity of the Newfoundland winter well, among which may be mentioned the polyanthus, pansy, and sweet William, also pinks and carnations generally, and among bulbous roots, all kinds of hly, even the white hly, tulip, hyacinths, &c , are rarely known to fail, though kept in the ground all winter.

in Of frunt trees, those of the more hardy kinds, and which produce their fruit at an early season, of course answer best. The climate is well adapted to gooseberries and currants of every variety, and they produce abundant crops almost invariably. The insect tribe alone seems inimical to them, and the trees are frequently divested of their foliage by caterpillars, except in low or moist situations, where these trees generally succeed best. Cherries of most kinds also bear the climate, and produce well; but the Kentish and Mayduke may be rehed on as standing the climate, and bearing fruit as well as in England.

With respect to apples, pears, and plums, the

early varieties only may be considered as well adapted. Plums of many kinds, and damsons have been grown for many years in Conception Bay, as well as in St. John's. The earliest kinds ripen, and the late sorts answer for culinary purposes. Raspberries and strawberries succeed as well here as in any country; they are, in fact, indigenous, and are found wild in considerable quantities. The cultivated kinds rarely, if ever, fail to yield fruit, and the strawberries are ever, fail to yield fruit, and the strawberries are remarkable for abundant produce and fine flavour."

The honourable P. Morris, treasurer of Newfoundland, who has paid much attention to the affairs of the island, says, in reference to tillage—

"If agriculture has rapidly advanced in the worst and most sterile part of the island, and has been found most remunerative to those engaged in it, there can be no doubt of it succeeding in parts where the soil and climate are more favourable. The question does not rest on speculation or problematical opinions. Some of the finest and most productive farms are in successful occupation and cultivation in the various remote districts of the island.

"The best practical proof of the capabilities of the soil of Newfoundland for agricultural purposes is to be found in the census returns of 1836 and 1845.

"There is no means of accurately ascertaining the extent of land cultivated and annual produce before the year 1836, in which year, under a local Act, the following returns were made—

RETURNS FOR 1836.

24,117 acres of land in possession	
11,0621 ditto in cultivation, at £20 per acre	£221.250
1,559 horses, at £10	15,590
5,832 neat cattle, at £5	29,160
6,923 sheep, at 20s	2,943
3,155 hogs, at 30s	4,379
Goats not taken in the return of the year,	,
say 4,000 at 20s	4,000
50) 1,000 00 200	
	£277,322
Annual Produce.	
1,168,127 bushels of potatoes, equal to	
467.250 4-5 barrels, at 5s.	£116,812
10,310 bushels of grain, at 3s	1,546
6,975 tons of hay, at £5	34,875
Increase of stock, calves, sheep, &c., &c	8,000
Mılk, butter, &c, &c	20,000
Vegetables, garden stuffs, &c	10,000
	£191,233
RETURNS FOR 1845.	
83,435 acres of land in possession.	
20 6561 same of land in cultivation at £20	
29,656 acres of land in cultivation, at £20	£598,125
2,409 horses, at £10	24,090
2,409 horses, at £10	24,090 40,675
2,409 horses, at £10	24,090 40,675 5,750
2,409 horses, at £10	24,090 40,675 5,750 7,615
2,409 horses, at £10	24,090 40,675 5,750
2,409 horses, at £10	24,090 40,675 5,750 7,615 5,791
2,409 horses, at £10	24,090 40,675 5,750 7,615
2,409 horses, at £10	24,090 40,675 5,750 7,615 5,791 £682,046
2,409 horses, at £10	24,090 40,675 5,750 7,615 5,791 £682,048
2,409 horses, at £10	24,090 40,675 5,750 7,618 5,791 £682,046 85,535 1,764
2,409 horses, at £10	24,090 40,675 5,750 7,615 5,791 £682,046 85,535 1,754 55,065
2,409 horses, at £10	24,090 40,675 5,750 7,616 5,791 £682,046 85,535 1,764 55,065
2,409 horses, at £10	24,090 40,675 5,750 7,615 5,791 £682,046 85,535 1,754 55,065 15,000 30,000
2,409 horses, at £10	24,090 40,675 5,750 7,616 5,791 £682,046 85,535 1,764 55,065

£202.354

Estimated value of Land in cultivation, and Agricultural Stock, showing the increase in nine years. Estimated value of land in cultivation, and agricultural stock, in 1836, £277,675 10s.; estimated value of land in cultivation, and agricultural stock, in 1845, £677,046 10s. Increase in value of land in cultiva-tion, and agricultural stock, in nine years, from 1836 to 1845, £399,371. Annual produce for the year 1836, £191,234 4s.; annual produce for the year 1845, £202,354 10s. Increase in annual value of produce, £11,120 6s.

"There must be some material error in the returns. either for the year 1836 or 1845, in respect to the In the former year, with only 11,062 acres of land in cultivation, the quantity of potatoes is given at 467,250,485 barrels. In 1845, with 296561 acres in cultivation, there is given only 341,341 bar-rels, showing a deficiency of potatoes in the latter year to the extent of 125,909 barrels, which, valuing at 5s. per barrel, amounts to £31,975 5s This, added to the estimated value of the annual produce for 1845, supposing the potato crop of that year to have equalled the produce for 1836, and there is no doubt whatever of it having far exceeded it, the annual value of agricultural productions for 1845 would amount to the sum of £233,329 15s.

"The produce may appear excessive in reference to the limited amount of land in cultivation; but it must be taken into account that a great portion of it is cultivated as garden ground, highly manured with fish offal. The produce is abundant, particularly of potatoes, the great object with all the small occupiers, who compose a vast majority of the whole. The estimate of the value of land, at £20 per acre, and of stock, without taking into account the land in occupation but not cleared, nearly £700,000, would startle those who have not turned their attention to

the subject. It is a curious fact, but not more curious than true, that the depression of the fisheries, and the consequent distress of the people of Newfoundland, have forced into existence, a capital, a permanent capital, almost equal in amount to the whole value of ships, boats, and fishery stock, in the palmy days of monopoly, at any period for centuries past. What has yet been done only forms a nucleus for further advancement; and, in all probability, before another quarter of a century passes over the heads of the present generation, the agricultural capital of Newfoundland, with other products of industry, will exceed many times the amount of any capital invested in the fisheries; and what is better, unlike that capital, it cannot, when increased in bulk, be removed by migratory birds of passage, to increase the stock and improve the condition of every other country but that in which it was produced."

The total number of acres of land granted is about 23,400; and sold, 11,528. quantity ungranted cannot be correctly ascertained. The number of grants under 100 acres, in 1848, in the central district, was 50, acres, 947. Northern, 10; acres, 242. Southern, 15; acres, 152. The census of 1836 states the number of horses then in the island, 1,551; neat cattle, 6,136; sheep, 2,995; hogs, 3,261. The returns of produce are imperfectly given for the several districts.

The census of 1845 does not supply any information relative to the quantity of land under different crops; but it furnishes the following detail :--

District.	Acres under crop	Acres un- mentioned		Horned Cattle	Sheep	Goats	Oats	Potatoes	Hay	Straw and Fodder
							Bushels	Bushels	Tons	Tons
St. John's	19,099	41,078	771	1,307	228	1,125	3,346	48,543	3,469	844
Conception Bay	3,798	4,579	949	1,576	2,243	2,944	6,788	152,878	2,108	221
Trinity Bay	1,079	399	121	997	179	187	8	29,628	516	3
Bonavista Bay	612	196	52	505	243	680	272	25,971	356	13
Twillingate and Fogo .	406	181	5	276	38	338	14	13,682	51	2
Ferryland	1,202	1,073	176	607	315	276	556	28,556	878	37
Placentia and St. Mary's	2,200	2,072	245	1,618	1,938	226	588	28,759	1,557	16
Burin	1,347	484	85	889	127	8	20	11,081	777	_
Fortune Bay	212	115	5	360	439	7	3	2,067	174	21
Totals	29,654	52.605	2,409	8,135	5,750	5,791	11,695	341,165	9,886	1,127

There is no established market for agricultural produce, and comparatively little is sold, the greater part being consumed by the growers. The average value of the crops is—oats, 2s. to 2s. 6d.; potatoes, 1s. 3d. to 1s. 9d.; turnips, 1s. to 1s. 3d. per bushel; hay, £4 to £5 per ton; outer fodder, 50s. to £3 per ton.

In 1776 a copper mine was discovered and worked for a short time near Shoal Bay, about 15 miles from St. John's. Some quarries of limestone have also been found;

the French coast, the stone is said to be of excellent quality.

Manufactures.—The number of vessels built at St. John's, in 1848, was 19; tonnage, 794. There are in the capital two corn mills, one saw and one hone mill, a gas manufactory, an iron foundry, and a brewery.

Prices of produce and merchandize in 1848.—Wheaten flour, per bushel, 35s. to 40s.; wheaten bread, per lb., 2d.; horned cattle, £8 to £12; horses, £15; sheep, 15s. in July, 35s. in January; goats, 20s. to 25s.; in one at Canada harbour, on what is called swine, 6d. per lb.; milk, per quart, 81d. to 5d.; butter, fresh, 1s. 6d. to 2s.; ditto salt, 9d.; cheese, 5d.; beef, 5d. to 7d.; mutton, 6d. to 8d.; pork, 5d. to 7d. per lb.; rice, 25s. to 28s. per cwt.; coffee, 7d.; tea, 2s. per lb.; sugar, 85s. per cwt.; salt, 7s. 6d. to 10s for 8 bushels; wine, per gallon, 7s. 6d.; brandy, 12s. 6d. to 14s. 6d.; beer, per hogshead, 60s.; tobacco, 7d. to 8d. per lb.

Wages for labour.—Domestic, £20 to £30 per annum; predial, £18 to £25; trades,

5s. to 6s. 6d. per diem.

Fisheries.—The official report of the governor, in 1848, on the subject, contains some interesting facts; and first with regard to the seal fishery:—

"The capture of the seal for the sake of its skin, and the oil that is produced from its fat, has been an object to the inhabitants from its earliest settlement, either by means of nets along its shores, or by vessels proceeding to the fields of ice that annually drift from the arctic regions No date can be assigned when nets were first introduced; but the fishery by this means was carried on to some considerable extent on that part of the eastern coast which was ceded to the French at the close of the last war, but now very few establishments exist in Newfoundland; but there are still some of considerable extent on the coasts of Labrador, and in the straits of Belle Isle.

The prosecution of the seal fishery by vessels is quite of a modern date, it being only 54 years ago that the first vessel sailed on this expedition, and it has in this short period arrived at its present extent, and now gives employment to near 11,000 men, actually engaged in catching the seal, and employs 340 vessels, of the aggregate burthen of 29,800 tons, new measurement. In 1793 a merchant of St. John's commenced it by fitting out two small vessels, of about 45 tons each, which sailed the first week in April, and were very successful, one returning with over 800 seals, and the other with not quite so many

"In the year 1796 four vessels sailed from St John's, and a few from Conception Bay, originally the vessels engaged in this fishery were of a small description, even open boats that were employed in the cod fishery of 30 tons, and even less, were sent out on this hazardous voyage, and a few rarely exceeded 50 tons, with a crew of 11 men, but they gradually increased in size, and the number of hands In fact there was for a long period a sent in them prejudice of employing vessels over 60 tons, as they were considered too large and too heavy to prosecute the fishery successfully; this prejudice existed even so late as the year 1825, when two vessels of 120 tons each were built in Conception Bay expressly for the seal fishery. Both of these vessels were very fortunate the first time of going out; one bringing home in the spring of the year 1826, 6,666 scals, and the other 5,828 seals.

"This seems to have set the question as regarded size at rest, and from that period the old class vessels. of small tonnage, have been gradually superseded by those of a larger class. The vessels now engaged in the seal fishery are many of them over 115 tons, new measurement; or 140, old measurement; very few, indeed, now going out so small as 80 tons, new mea

"This fishery is now of very great importance to

the inhabitants of this colony; for besides employing 11,000 men in actually catching the seals, it gives employment to almost every class of mechanics, as well as common labourers, in manufacturing the seals, the value of which, in the spring of the past year, exceeded £214,000 Its great value may be well imagined, when the shortness of the period of this fishery is considered; these large sums being realized within the space of six weeks.

"The usual time of leaving for the ice is from the 1st to the 10th of March, if the vessels can get out, though formerly no vessel thought of leaving before the 25th of March to the 10th of April The crews are shipped on shares, each man being directly interested in the quantity of seals caught they pay the owner a sum varying from 10s. to 35s. for being allowed to proceed in the vessel, which is called berth-money, each man has to find a gun, or to pay the hire of one, and also has to find 25 sticks of firewood for fuel while on the voyage. The owner of the vessel receives one-half the seals brought home in the vessel for fitting her out, &c, with all necessary material; the other half is taken by the crew, and equally divided among them according to the number, the owner receiving the master's share, who is paid by the owner 4d to 6d for each seal the vessel brings in, or 1s to 1s 3d. per cwt, according to the agreement that may be made between them previous to the commencement of the voyage

"The vessels in Conception Bay are insured in mutual societies, that is, a certain number of owners enter into an agreement with each other that they will pay all losses that may occur to each other's vessels during the season. There are two of this description now in Conception Bay, one at Harbour Grace, the other at Brigus Each one has a secretary, who keeps the records of the society, for which he is naid 15s for each vessel insured. There are also three surveyors to inspect the vessels previous to proceeding on the voyage, and to see they are properly equipped to encounter its dangers they are paid a small sum for their services. The insurance in the Brigus society has been very light indeed, only five vessels having been lost since the year 1833, whereas the Harbour Grace society has been very unfortunate lately, the losses being very heavy. The vessels of St John's are insured in a society, and a certain premium is charged each vessel, according to her class."

The fishing or catching of the seals is an extremely hazardous employment; the vessels are from 60 to 150 tons, with crews of from 16 to 30 men each, provided with firearms, &c., to kill the seal, and poles to defend their vessels from the pressure of the In the beginning of March, the crews of the vessels in their respective harbours collect on the ice with hatchets, saws, &c., and cut two lines in the frozen surface, wide enough apart to allow their schooners to pass -an operation of great labour, as after the thick flakes have been sawn or cut through, they have to be pushed beneath the firm ice with long poles The vessels then get out to sea, if possible, through the openings, and work their persions way to windward of the vast fields of ice, until they arrive at one covered with the animals of which they are in quest, and which is termed a seal meadow. The seals are attacked by the fishers, or, more properly speaking, hunters, with fire arms, or generally with short heavy batons, a blow of which on the nose is instantly fatal. The hooded seals sometimes draw their hoods, which are shot-proof, over their heads. The large ones frequently turn on the men, especially when they have young ones beside them, and the piteous cries and moans of the latter are truly distressing to those who are not accustomed to the immense slaughter which is attended with so great a profit. The skins, with the fat surrounding the bodies, are stripped off together. and the carcases left on the ice. The winter tenants on the Labrador coast say the young seal is excellent eating. The pelts or scalps are carried to the vessels, whose situation during a tempest is attended with fearful danger; many have been known to be crushed to pieces by the ice closing on them. Storms during the dark night, among vast icebergs, can only be imagined by a person who has been on a lee shore in a gale of wind; but the hardy seal hunters seem to court such hazardous adventures.

In 1834 the number of vessels employed in the seal fishery was 353, of which 120 were from St. John's. The number of seals caught was: in 1831, 744,000; in 1832, 523,000; in 1833, 438,000; in 1834, 401,000.

Number of Vessels sailing for the Seal Fishery, Spring, 1847.

Districts	Vessels	Tonnage	Men
St. John's	95 66 54 51 74	9,353 5,010 4,634 5,084 5,803	3,215 2,111 1,672 1 684 2,123
Total	340	29,884	10,805

Number of Seals caught, Spring. 1847.

Fishing Stations	Seals caught
Manufactured in St John's Manufactured in Conception and Trinity Bay	334,270 110,910
Total number caught	455,180
Estimated value of seals caught, Spring, 1847	£214.175

"Cod Fishery.—The extraordinary abundance of cod fish on the banks and shores of Newfoundland was speedily ascertained after the discovery of the island in the year 1479. The fishery in 1626 was rapidly growing into importance, and at that time

the island began to supply the demand in Spain and Italy. At the close of the late war the fisheries rose to a pitch of prosperity quite unprecedented, the exports in the year 1814 amounting to £2,831,538. When, however, peace was restored, the British government conceded to France her extensive rights of fishing exactly as they stood at the commencement of the war; and now, owing to the large bounties with which that government supports and encourages their fisheries, we are obliged to compete with them on very unequal terms in the supplying of foreign markets, so much so that the British Bank Fishery has ceased to exist, and the fisheries have dwindled down to an open boat in-shore fishery, and even that is year after year getting worse, and has ceased to give the remunerative employment to those engaged in it, as was the case in bygone years.

The cod fishery opens at the beginning of June, and lasts till about the middle of October, and may be said to form the staple occupation of the inhabitants of this colony; it is prosecuted by the planters and their assistant fishermen, who form one of the two classes of this community; they live under the control and influence of the other class, the merchant, on whom they are solely dependent for the supplies and requisite means for pursuing their calling.

"By the census of 1845 the planters, fishermen, and shoremen amounted in number to 18,503 persons, and their boats, which are divided into three classes according to the burthen of fish they can carry, amounted to 10,089; the divisions being—8,092 boats, carrying from 4 to 15 quintals of fish; 1,025 boats, from 15 to 30 quintals; and 972 boats, from 30 quintals upwards

"The quantity of dried cod fish exported in the year 1847 was \$37,973 quintals, the value of which may be estimated at £489,940. The liver of the cod yields a large quantity of oil, which is extracted from it by natural heat, no other preparation being necessary than merely putting it into casks, and when it is fully decayed drawing off the oil. A quintal of good fish will yield more than a gallon of oil, but the produce of the season is not more than 80 gallons to 100 quintals of fish. The quantity of cod oil exported in the past year was 2,369 tuns, the value of which may be estimated at £60,329.

There are, as above stated, an immense number of boats of different descriptions engaged in the shore fishery; viz. punts skiffs, jacks, or jackasses, western boats, and shallops, employing from one to seven men each, according to their size, and the distance they may have to sail before they reach their respective fishing grounds. The punts and small boats are generally manned by two persons, and occupied in fishing within a very short distance of the harbour, or circles to which they belong; the skiffs, carrying three or four hands, proceed to more distant stations, sometimes twenty or thirty miles; the western boats are larger than skiffs, and usually fish off Cape St. Mary's, off the entrance of a bay so named; the shallops are still larger craft, but now almost obsolete: some of this latter class have been known to admeasure 50 or 60 tons each. tuting what is termed a "Mosquito fleet," start at the earliest dawn of day, and proceed to the fishing grounds, when the cod thrown into the sea, and their back bones are expected in great abundance, for at torn out, in the short space of one minute certain seasons they congregate and swim in shoals, and are not unfrequently as capricious in their resort as the winds which are said to influence their movements: these boats generally land their cargoes at the "stage" at least once a day, usually in the evening, except it be in the height of the in hand barrows to the salter, by whom season, during capelin time, when they may occasionally load twice a day; the western boats and shallops split and salt their fish abroad, and return to their respective hartheir salt, or loaded their craft.

The stage is erected on posts, and juts out into the sea, far enough to allow the boats to come close to its extremity, for the ready discharge of their cargoes, it is generally covered over, as the rain will injure the fish, and on the same platform is the salt house, with the benches for the cut-throat, header, splitter, and salter, the two latter having in in point of wages the precedence, and the

two former being on a par.

Having thus explained the method of cod-fishing, it remains only to describe the manner of curing. Each salting-house is provided with one or more tables, around which are placed wooden seats and leathern aprons for the cut-throats, headers, and splitters. The fish having been thrown from the boats, a man is generally employed to pitch them with a pike from the stage upon lower fish dry. the table before the cut-throat, who rips open the bowels, and having also nearly severed the head from the body, he passes it along the table to his right-hand neighbour, the header, whose business is to pull off the head, and tear out the entrails; from these he selects the liver, and in some instances the sound; the head and entrails being precipitated through a trunk into a flatbottomed boat placed under the stage, and taken to the shore for manure; the liver fish in Newfoundland. They are distinis thrown into a cask exposed to the sun, where it distils into oil, and the remaining blubber is boiled to procure an oil of inferior quality, and the sounds, if intended for preservation, are salted. After having undergone this operation, the cod is next ish on the face, occasioned by an undue passed across the table to the splitter, who cuts out the back bone, as low as the navel, in the twinkling of an eye.

With such amazing celerity is the ope- broken at the fins.

The punts and skiffs, consti- ration of heading, splitting, and salting performed, that it is not an unusual thing to see ten codfish decapitated, their entrails and a half. The splitter receives the highest wages, and holds a rank next to the master of the voyage; but the salter is also a person of great consideration, upon whose skill the chief preservation of the cod depends

For the next process, the cod are carried they are spread in layers upon the top of each other, with a proper quantity of salt

between each laver.

In this state the fish continue for a few bours when they may have expended all days, when they are again taken in barrows to a square flat wooden trough (commonly called the ram's horn, supposed to be a corrupt term from the French verb Rincer,) full of holes, which is suspended from the stage head in the sea. The washer stands up to his knees in this trough, and rubs the salt and slime off the cod with a soft mop. The fish are then taken to a convenient spot, and piled up to drain; and the heap thus formed is called a "water-horse" the following day or two the cod are removed to the fish flakes, where they are spread in the sun to dry, and from thenceforward they are kept constantly turned during the day, and piled up in small heaps called faggots at night The upper fish are always laid with their bellies downwards, so that the skins of their backs answer the purpose of thatch to keep the

By degrees the size of these faggots is increased, until at length, instead of small parcels, they assume the form of large circular stacks or piles; and in this state the cod are left for a few days, as the fishermen say, to "sweat." The process of curing 18 now nearly complete, and the fish exposed one or twice to the sun are afterwards stored up in warehouses, lying ready for exportation.

There are three qualities of cured codguished by the titles of merchantable fish, Madeira, and West India fish. Merchantable fish are those cured in the best possible manner, and having no apparent defect Madeira are those having some slight blemquantity of salt, or being sun-burnt; West India having, in addition to the defect of the Madeira, some cracks in the middle, or

West India fish are supplied to the West which this deficiency occurs:-Indies, and of late years a considerable quantity has been annually exported to the southern and western counties of Ireland. The west of England also consumes no unimportant quantity of salted cod annually. Madeira is 1s. a quintal under Merchantable, and 1s. 6d more than West India.

It will be evident, when the foregoing statements are examined, that the cod fisheries of Newfoundland are to England more precious than the mines of Peru and Mexico; and, in truth, if we consider the vast quantities of fish annually drawn from the banks and adjacent coast, it will be found that as the mere representative value of gold, their worth far exceeds that of the precious metals, to say nothing of the importance of the subject in a maritime, commercial, and political point of view.

"Herring Fishery —Though the shores of New-foundland swarm with herrings from March to December, yet the curing of these valuable fish has been in a certain degree totally neglected, though there is no country in the world better adapted for prosecuting this fishery with success. It is the opinion of many persons well versed in the trade, that if proper attention was paid to it, and more care used in curing them than there is at present, in a few years the fishery would rise to such an importance, as not merely to be an auxiliary to the cod fishery as it is at present, but that it would almost rival it In the past year the number of barrels exported was 9,907, and their value may be estimated at £5,111

"Salmon Fishery -The salmon fishery has been carried on in this country from its earliest discovery, and nearly to the same extent as it is at present The export of them has ranged from 2,500 to 5,000 tierces of 300 lbs each for the past 50 years, though that is not near half the quantity caught, as a great deal of salmon is shipped at the Labrador and parts of Newfoundland, the accounts of which do not pass through the Custom House, being sold generally to American traders, who buy them loose from 18s. to 25s per 100 lbs. The number of barrels exported in the past year was 4,917, the value of which may be taken at £9,782.

The fisheries employed and produced as follows :--

	E	mploye	d	Produce		
Years	No of Boats.	Tons	Men	Quintals of Fish	Tuns of Frain Oil	Tuns of Seal Oil
In 1820 , 1821	107 756	5,796 43,542	275 10,799	810,074 4,487 No Returns		2,219 8,761

The quintal of fish was then estimated at 8s. to 12s.; train oil at £18 to £20 per tun; seal ditto, £21 to £25.

Merchantable fish are generally shipped parative statement of the quantity and value for the Spanish, Portuguese, Italian, and of the staple articles of produce exported in South American markets. Madeira and three years, will best show the items in

antity.

Years	Dried Fish	Oils	Seal Skins	Salmon.	Herrings
1845 1846	Quintals 1,000,233 879,015	Tuns 8,670 7,507	Number 352,202 265,169	5,201	Barrels 20,903 12,119
1847	837,973	8,624		Barrels 4,917	9,907

Value.

1	£	£	£	£	£
1845	596.990	243,646	40,123	12,794	11.234
		182,974			
		229,185			

The following abstract of a report on the French fisheries in Newfoundland, prepared by direction of the collector of her majesty's customs in Newfoundland, is worthy of consideration:-

"The five years' average of fish taken, say 1831 to 1835 inclusive, at the French shore, on the banks and in the neighbourhood of St Pierre and Miquelon, did not exceed 300,000 quintals, which, in 1835, was thus disposed of -27,000 was sent to Spain, Portugal, and Italy, 40,000 nearly was sent to the French cetonies in the West Indies, 170,000 consumed in France; and 63,000 sent to France in a green state and re-

exported total, 300,000 quintals.
"The amount of premiums, drawbacks, and bounties, granted in support of the French fisheries in 1835, was £883,000 sterling, or nearly 20,000,000 francs Premiums from 100 to 500, and, in many instances, so high as 1,000 francs a man, were granted. The number of fishermen employed was 6,200

"The bounty on fish re-exported from France to the French colonies in the West Indies, was 10 francs, 33s 4d a quintal It was shortly after that period reduced, and now remains at 24 francs. On fish sent direct to foreign ports in the Mediterranean a bounty from France (10s.) is paid, and on re-exportation from France to foreign ports, or in crossing the frontier by land into Spain, 10 francs, 8s. 4d. The largest premium granted a French fisherman does not at present, m any instance, exceed 150 francs.

"In the year 1845 the number of French vessels which arrived at St. Pierre was 197; tons, 28,750; foreign vessels arriving at St Pierre, 1845,-119; total arriving at St. Pierre, 316; value of cargoes, £49,538.

"The number of French vessels engaged fishing on the Banks and batted at St. Pierre 1845, 104; 16,750 tons; 2,601 men.

"The quantity of fish taken by French vessels on the Banks alone, and baited at St. Pierre in 1845, was 208,900 quintals; caught in the neighbourhood of St. Pierre and Miquelon, 48,000; total, 256,900 quintals. "The fish taken on the French shore is not in-

cluded in the above quantity of 256,900 quintals; but it will be seen that the fishery at St. Pierre in 1845, was only 43,100 quintals short of the whole catch,

including the French shore, in 1835.

"Of the last-mentioned quantity (48,000 quintals) The following tables, exhibiting a com- taken in the neighbourhood of St. Pierre and Miquelon,

nearly one-half was taken on the British fishing-

ground.

"The catch, as regards the fishery at St. Pierre, 1845, was thus disposed of:—48,000 were sent direct to the French colonies in the West Indies; 119,000 consumed in France; 68,000 sent to France in a reen state, and re-exported; and 31,900 to Spain, ortugal, and Italy: total, 256,900 quintals.

"The quantity of herrings supplied the French, 1845, and used as bait on the banks:—

Say 25 vessels, averaging each 110 brls. = 2730

25 , , 100 , 2500

25 , , , , , 80 , 2040

29 , , , 69 , 2000

104 vessels.

Total . 9270 brls

"The quantity of capelin taken to the Banks and used as bait, is, as compared with herrings, in the proportion of a hogshead to a barrel—one hogshead of capelin being equivalent to one barrel of herrings; thus the quantity of capelin consumed by the French on the Banks in 1845, was 9,270 hhds., or 20,858 barrels, to which must be added 4,000 barrels used on the shore fishery, making in the whole 24,858 barrels.

the shore fishery, making in the whole 24,858 barrels.

"For many seasons past, until 1846, the quantity of capelin annually supplied to the French islands by our fishermen, was not less than 20,000 barrels. Up to the first of July last, capelin was in abundance at St. Pierre and Miquelon, a very unusual circumstance, which is attributed to a prevalence of southerly and easterly winds. It was not therefore in demand at St. Pierre up to that date, and subsequently from our being in the neighbourhood of Lameline, not more than 300 hhds were conveyed to St. Pierre from our shore. The consequence was, four or five of their first-class Bankers were entirely deprived of bait, and I am informed that they were only enabled

to proceed to the Banks late in July on obtaining a supply of souids from our people.

supply of squids from our people.

"The sums paid for bait at St. Pierre in 1845, was, for herrings, £8,950, and for capelin, nearly £5,000. The former cost on an average 15s., the latter 5s. per barrel; and not less than £2,800 was paid for firewood; the quantity sold was 3,200 cords, at 17s. 6d. per cord These amounts, making in the whole £13,750, were mostly paid in cash, and the greater part of them eventually expended at St. Pierre in the purchase of dutable articles. Along the line of coast extending from Burin to Harbour Britain, a distance of 100 miles and upwards, there is not at present a single mercantile establishment."

Commerce.—The trade of Newfoundland, for the reasons stated by several authorities, namely, French and American competition, has not of late years increased. The following table will serve as a comparison between the past and present trade of the colony:—

Exports in Years	Quintals	Barrels	Kegs	Oil Tuns	Scal Skins
Ave of 1790, 1, 2	656,800	6,276		1,891	_
Ave of 1798, 9, 1800	382,881	2,223	-	2.131	
1805	526,380	5,876	1	_	
1810	_	_			-
1815	1.245,808	5,380	1.892	8.225	141,374
1820	899,729	4,913	20,026		221,334
1825	973,464		6,680		221,510
1830	760,177				559,342

In 1829 the imports were valued at £819,399, and the exports at £690,309. The following is a comparative statement of the staple articles exported from 1838 to 1843:—

Years	Dried Fish		Oıls		Seal Skins		Salmon		Herrings	
1838 . 1839 . 1840 . 1841 . 1842 .	Quintals 724,515 865,370 915,795 1,009725 1,007980 936,202	508,157 576,245 605,014 561,950	Gallons 2,173,634 2,224,262 3,206,583 2,673,574 2,262,031 3,111,312	305,197 266,832 233,313	437,501 631,385 417,115 344,683	Value £30,474 46,336 39,408 29,961 23,200 40,497	Therces 4,408 2,922 3,396 3,642 4,715 4,058	Value £13,310 11,692 12,939 12,302 13,678 12,216	Barrols 15,276 20,806 14,686 9,965 13,839 9,649	Value £10,723 13,840 9,036 6,361 7,119 4,570

Imports and Exports in 1848:-

~ .	-		Shipp	pping	
Countries.	Imports	Exports	In.	Out	
Great Britain West Indies B. N. America	£ 276,769 2,496 127,060 7,512 229,279	55,641 42,251 8,596 16,268	19,848	67,504 4,653	
Foreign States . Total	769,628		35,456 125,155		

Total value of Trade for the last four years.

•	1845	1846	1847.	1848.
Imports Exports	801,330 939,436	802,247 759,103	843,409 806,565	769,628 837,581
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In 1846-47 the colony was afflicted with a series of calamities; short fisheries, failure of the potato crop, the destruction by fire of a great part of the capital, a hurricane which devastated the coasts on the 19th of September, and the reaction on America of commercial distress in Europe. These disasters sufficiently account for the check given to commerce.

The imports from Great Britain, include bread and biscuit, 115,303 cwts., valued at £23,946; candles, value £2,046; coals, £3,595; cordage and cables, £10,964; cotton manufactures, £35,582; flour, £1,766; Geneva, 1,289 gallons; gunpowder, £1,400; hardware and cutlery, £7,940; iron, bar, &c., £7,113; lead, bar and sheet, £1,748; lead shot, £1,368; lead paints, £1,712; leather

2 з

£13,148; nails, £3,460; rum, £1,124; salt, £8,997; silk manufactures, £5,850; slops, £1,339; soap, £4,397; stationery, £4,176; building-stone, £1,793. These are some of the items of imports from England.

Great Britain; £51,807 to the West Indies; £26,273 to British North America; other colonies, £5,820; to United States, £7,592; ditto, £87,622; salmon, £6,597; seal-skins, per cent. **£**50,426.

The fish exported in 1848, was, of dried cod, 920,366 quintals, value £491,924; core, 18, £10; salmon, 3,822 barrels, £6,597; herrings, 13,872 barrels, £7,644; capelin, cod sounds, and tongues, 758 packages, £232, oils, 10,704 tuns, £253,472; seal-skins, 521,604, £58,426. Total value of fish, oil, and skins, £818,305. The consumption of fish in the colony is estimated at 11 to 2 quintals for each mouth of the population, which raises the quantity of the fish caught from 140,000 to 200,000 quintals.

In 1836 the number of fishing boats belonging to the different places in Newfoundland was :---

Districts.	Under 15 Quintls	15 to 30 Quintle	Upward of 30 Quintals
St. John's	700	43	13
Conception Bay	1157	46	109
Trinity Bay	798	168	11
Bonavista Bay	181	197	51
Fogo and Twillingate .	737	36	6
Ferryland	370	139	77
Placentia and St Mary's	297	128	90
Burn	169	55	138
Fortune Bay	632	21	19
Totals	5141	833	514

Ship building is carried on in Newfoundland. The number and tonnage of those built were —in 1837, 26 vessels, 1,170 tons; in 1838, 28 vessels, 1,652 tons; in 1839, 16 vessels, 811 tons; in 1840, 31 vessels, 1,659 tons; in 1841, 33 vessels, 1,683 tons; in 1842, 32 vessels, 1,553 tons; in 1843, 24 vessels, 1,192 tons.

per barrel; oatmeal, 1s. 6d. per barrel; coals, judged.

manufactures, £32,234; linen manufactures, 1s. per ton; salt meat, 1s. 6d. per cwt.; ale £5,016; sails, 9,509; lines and twines, and porter, and household furniture, 10 per cent.; wine in bottles, 2s. 6d.; all other wines, 1s. 6d.; brandy and gin, 2s. 6d.; rum and whiskey, 1s. 3d. per gallon; apples, 1s. 6d. per barrel; molasses, 11d. per gallon; refined sugar, 5s. per cwt.; tea, 3d. per lb.; The exports of dried fish in 1848 were in tobacco, 2s. per lb.; timber, 2s. 6d. per M. value £491,124, of which £30,469 came to ton; timber and scantling, 1s. 6d. per ton; shingles, 1s. per M.; salt implements and materials for fisheries, horses, cattle, sheep, pigs, corn, seeds, vegetables, manures, books, and to foreign states, £369,963. The value unrefined sugar, coffee, coin, and bullion, of seal oil exported was £160,909; of cod free of duties; non-enumerated articles, 5

I have described somewhat fully the history and present condition of this important colony, whose annals (in themselves fraught with much interest,) are closely connected with the maritime supremacy of Britain, since on its shores have been reared a skilful and hardy race of seamen, employed in a traffic, which, during the last two hundred and fifty years, has furnished fish and oil to the value of about £120,000,000 sterling. It is impossible to review, without deep regret, the mistaken and most injurious policy so long pursued with regard to Newfoundland. Its brave and loval, but rude, uncivilized, and mis-governed people, deserved, and had their real position been understood, would most certainly have received very different treatment from the home government; but the mis-representations of a monopolizing party, aided by the infrequency and difficulty of communication, except through an interested medium, prevailed, and Newfoundland with its commanding position, fine harbours, and salubrious climate, was tabooed as a barren and inhospitable island, totally unfit for the habitation of man, and capable only of maintaining a few fishing stations. These misapprehensions are now passing away, the truth, unwarped by prejudice and unvarnished by exaggeration, is gradually becoming understood, and the results of an improved and improving system of legislation, are shewn in the progress of this ancient and truly British colony. The French and American encroachments, on the privileges granted by the Colonial duties levied in Newfoundland in treaty, have been already adverted to; any 1844:—On bread, 3d. per cwt.; flour, 1s. 6d. further comment would be, perhaps, ill-

BOOK VI.-HUDSON'S BAY TERRITORIES.

GEOGRAPHICAL POSITION, AREA, HISTORY, CONSTITUTION, AND WORKING OF THE HUDSON'S BAY COMPANY; PHYSICAL ASPECT, FORTS AND STATIONS, POPULATION, &c.

Arctic Ocean forms the northern boundary the sinuosities of the coast.

It is extremely difficult to form anything like a correct estimate of the dimensions of this vast region, from the number and extent of its inland seas. Its length is stated by Murray at about 2,600 miles, and its breadth at nearly 1,460 English miles area is calculated by Arrowsmith at 3,060,000 square miles.

HISTORY.—In 1517 Sebastian Cabot, while in search of the north-west passage, penetrated into Hudson's Bay, but without discovering it to be an enclosed sea. In 1585 Davis, whilst prosecuting a similar investigation, discovered the strait since called by his name. In 1610 Hudson sailed through the strait, and into the bay named from him Fretum Hudson, "the Hudson Sea;" but being compelled to winter there, extreme cold and severe suffering led to a mutiny among his crew, and he, with several of his adherents, was exposed in a small boat, and doubtless perished; a few only of the sailors returned to tell the tale. In 1616 Baffin traced the outlines of another great bay, to which his name was given. Subsequent voyages, made by several English navigators, proved that the vast expanse which had been taken by Hudson and others for the open the company on Rupert's river. In 1674 sea, had no other outlet but the strait through stations were established on Moose river, which it had been entered, while its shores and a few years after on the Albany, to

THE north-west territories of British Ame- were found to be tenanted by furred animals rica, exclusive of Canada, extend from the of great value. The first idea of forming a Pacific Ocean and Vancouver's Island along settlement was suggested by a Frenchman, the parallel of the 49th degree of north latinamed Grosseliez, to his own government, tude, near to the head of Lake Superior, and but being coldly received he obtained, thence in a north-easterly direction to the through the British ambassador, an intercoast of Labrador and the Atlantic. The view with Prince Rupert, before whom he laid his plan. The prince, entering warmly into The whole region between the meridians of the project, by his assistance, a vessel was 55° and 141° of west longitude is included, fitted out, which, in September, 1668, reached excepting a strip of Russian territory on the a river then called Nemisco, to which the Pacific Ocean, between 54° and 60° north adventurers gave the name of Rupert. They latitude, of ten leagues in breadth, following wintered there with less suffering and difficulty than had been anticipated, and on their return made so favourable a report, as to induce Prince Rupert, the Duke of Albemarle, Earl of Craven, Lord Ashley, and others, to form a company and commence a traffic in furs, for which purpose £10,500 was subscribed. A charter of incorporation was granted by Charles II., giving to the company full possession of

" All the lands and territories upon the countries, coasts, and confines of the seas, bays, lakes, rivers, creeks, and sounds, in whatsoever latitude they shall be, that he within the entrance of the straits, commonly called Hudson's Straits, that are not already actually possessed by, or granted to any of our subjects, or possessed by the subjects of any other Christian Prince or State.'

The charter proceeds to grant further,

"The whole and entire trade and traffic to and from all havens, bays, creeks, rivers, lakes, and seas, into which they shall find entrance or passage by water or land out of the territories, limits, or places, aforesaid; and to and with all the natives and people inhabiting, or which shall inhabit within the territories. Imits, and places aforesaid; and to and with all other nations inhabiting any the coasts adjacent to the said territories, limits, and places which are not already possessed as aforesaid, or whereof the sole liberty or privilege of trade and traffic is not granted to any other of our subjects."

A settlement was immediately formed by

which were soon added two more on the sented in England the interests of the winincreased or newly-created stock; in the neutral territories. their establishments by the French.

These establishments were restored to the company by the peace of Utrecht in 1713, who in 1720 were enabled again to treble their capital stock with only a call of 10 per cent. on the proprietors. The forts were strengthened and new stations formed in the interior. In 1749 a question arose in parliament concerning the rights of the company, which was decided in their favour. In 1782 several of their establishments were taken by the French, under La Perouse, been very profitable until their rights of terassociation called the North-West Company, the fur trade. British settlement.

When the partnership of the North-West pany under certain conditions. associates was about to expire in 1821, three gentlemen in London, Edward Ellice, Esq., Bay Company .-- The Hudson's Bay Com-

Nelson and the Severn. These vigorous tering partners of the North-West traders in measures awakened the French court to a America, offered to merge their interests in sense of their neglect, and Grosseliez, already those of the Hudson's Bay Company: this detached from the English service, was sent was assented to, and in 1821 an act of Parliaout, in 1682, to found a factory on Hayes ment was passed, under which the Crewn River, which he succeeded in doing, and granted to the Hudson's Bay Company, and also in surprising the British one on the to the three representative agents of the From this time hostilities were of North-West Association in London and frequent occurrence between the English and Montreal, a licence of exclusive trade for French settlers, yet notwithstanding we find 21 years, in what were termed the "Indian from a document laid before parliament in territories," that is, over those tracts which 1842, that the profits of the company must might not be included in the grant of have been very large, since, notwithstanding Charles II., and also over those tracts which, losses sustained by the capture of the com- by mutual consent, were open to the pany's establishments by the French in the subjects of England, and to those of the years 1682 to 1688, amounting to £118,014, United States. The three North-West they were enabled to make a payment to the Association agents merged into the Hudproprietors in 1684 of 50 per cent.; another son's Bay Company; the exclusive trading payment in 1688 of 50 per cent.; and a licence was surrendered in 1838, and, after further payment in 1689 of 25 per cent. careful examination and investigation, on In 1690 the stock was trebled without any 30th May, 1838, the crown granted, under call being made, besides affording a payment covenant, another licence for 21 years of to the proprietors of 25 per cent, on the exclusive trade over the aforesaid Indian and These licences which years 1692, 1694, 1696, and 1697, the com- extended "to those parts in North America pany incurred loss and damage, to the beyond the limits of the charter which the amount of £97,500, by other captures of Hudson's Bay Company at present enjoy," (see Board of Trade letter, 2nd of June, 1837, in Parliamentary papers of 8th August, 1842,) in nowise invalidated or questioned the rights possessed by the Hudson's Bay Company, under the Royal Charter of 2nd May, 1670, which has been recognised by various treaties and acts of Parliament.

Previous to the recent Oregon treaty, the Hudson's Bay Company had formed settlements on the Columbia River, and some of its servants and retired officers established an agricultural farm at Puget Sound, south nevertheless their traffic appears to have of the 49th parallel, and within the present American territories; but the Oregon treaty ritory and trade were invaded by a rival expressly guaranteed the "possessory rights" of the Hudson's Bay Company in the whose fierce competition caused much ani- United American States, and of course mostty, and even bloodshed, proved very thus acknowledged the possessory rights injurious to the Indians, and destructive to of the Hudson's Bay Company north of In 1813 an agricultural set- the 49th parallel. In the trading licence tlement was founded by Earl Selkirk on the of 1838, the crown reserved to itself the Red River, which suffered greatly from the right of establishing any colony in the terincursions of the Indians incited by the ritory over which the licence extended: North-West adventurers, who in a wild foray hence the power now exercised by the slew Governor Semple, the head of the crown of disposing of Vancouver's Island, by vesting it in the Hudson's Bay Com-

Constitution and Working of the Hudson's and W. and S. M'Gillivray, who repre- pany, according to the printed list of 17th November, 1847, consists of 239 proprietors, to be made good out of the profits of next representing a capital stock of £400,000. year. Inventory, general account, and tariff The affairs of the corporation are managed of goods, to be made out yearly on 1st by a governor, deputy-governor, and com- June; and if profits were not paid to parmittee of seven, elected by proprietors hold-ties within 14 days after 1st June, interest ing each not less than £900 stock for six allowed of five per cent. months previous to voting, except such stock be acquired by bequest, marriage, &c. Of governors to preside at councils of chief the 239 proprietors, 55 have more than two factors, who carried into effect all acts must hold not less than £1,800 stock. The traders assisted in forming council, if there charter of 1670 prescribes the mode of were not seven chief factors present; each election, oaths to be administered, &c.; member of council had a vote; two-thirds authorises the governor and company to formed a majority for decision. Three chief make laws and ordinances for the good factors must be present, besides the presigovernment of their territory, and the advancement of trade, and to impose penalties and punishments not repugnant to the laws of England. The company has, accordingly, established, at the Red River Settlement, at a considerable expense, a governor, council, recorder, sheriff, coroner, &c., for the due government of the affairs of the Assiniboia or Red River territory, and for the careful and legal administration of justice throughout Rupert's Land.

Trial by jury, although not enjoined by the Royal Charter of 1670, was introduced into the Red River settlement by Sir George Simpson, under the directions of the Hudson's Bay authorities in England. It appears that crime is comparatively rare in Rupert's Land, and that justice is effectively and mercifully administered under the same safeguards that exist in England.

The fur and peltry traffic of the Company is regulated by a Deed Poll, bearing date 26th March, 1821, on the junction of the North-West traders with the Hudson's Bay Company; and by another Deed Poll, bear. ing date 6th June, 1834, "for ascertaining the rights and prescribing the duties of the chief factors and the chief traders, and for conducting the trade." The Deed Poll of 1821 was a co-partnery for 21 years between the Hudson's Bay Company and the representatives of the North-West Company, on the basis that each should provide an equal capital for carrying on the trade. The expenses of establishments in England and curred in one year on these 40 shares, it was ters for five years, then half for six years.

The governor and company appointed Each member of the committee authorized by the charter. Senior chief dent, to constitute a council. By the Deed Poll of 1821, there were 25 chief factors and 28 chief traders appointed, who were named in alternate succession from the Hudson's Bay Company, and North-West Company's servants.

The servants of both companies were placed on an equal footing; the 40 shares out of the 100, were sub-divided into 85 shares, and each of the 25 chief factors was entitled to 2 shares or 3 ths, and each of the 28 chief traders to $\frac{1}{2.5}$ th,—the remaining 7 out of the 85 shares were appropriated to old servants, in certain proportions, for seven years.

The chief factors superintend the business of the company at the respective stations, and the chief traders under them carry on the trade with the Indians. The clerks serve under both; the humblest clerk, who goes out from the Orkneys or elsewhere, by good conduct may rise to the chief positions in the service of the company. The salaries of the clerks vary from £20 to £100 per annum. The chief factors and traders who winter in the interior are allowed, in addition to their share of profits, certain personal necessaries free of charge; they are not of course permitted to carry on any private trade for themselves with the Indians; strict accounts, inventories, valuations, &c., are required of them annually. and the councils at the respective posts have power to mulct, admonish, or suspend any of the company's servants. Three chief America to be paid out of the trade, and no factors and two chief traders are allowed to expense relating to colonization, or to any leave the country annually for one year. A business separate from trade, to form a chief factor or a chief trader, after wintering charge on the concern. Profits were divided three years in the service of the company, into 100 shares, of which 40 were divided may retire and hold his full share of profits between the chief factors and chief traders, for one year after retiring, and half of the according to profit and loss; if a loss oc- share for the four ensuing years if he winless duration of service.

The accounts are kept with great accuracy, sold at much lower prices than formerly, skins, and has made "London undoubtedly world." Greenhow's Hist. Oregon, p. 412.

Caprice, fashion, changes in trade, or in the use of the different articles for manufacture, materially influences the price of goods; thus, for instance, the introduction of silk hats has much reduced the price of beaver skins and other furs. The fall in the price of all skins has been very great, but as beaver constitutes the largest item in value, the reduction of profit to the company will be seen by a comparison with the prices and amount of sales. Price of beaver skin, in 1839, 27s. 6d.; in 1846, 3s. 5d.; number of skins sold in 1839, 55,486; in 1846, 45,389; sale proceeds in 1839, £76,312; m 1846, £7,856.

There is also great variety in the prices of articles of similar denomination. sales on 30th August 1848, two lots of otter, 66 in the lot, sold for 83s.; another lot, with 72 in it, sold only for £1 11s. Fisher skins varied from 26s. 3d. to 3s. each; bear skins,

Three chief factors, or two chief factors and according to tariff; whether the skins be two chief traders, are allowed to retire good or bad, the company must buy them. annually according to rotation. The repre- By the time these skins are conveyed from the sentatives of a chief factor or chief trader, interior to the coast, warehoused, and shipped. who may die after having wintered five their cost is greatly enhanced, irrespective years, receive all the benefit to which the of loss by damage, interest of money, insurdeceased himself would have been entitled ances, &c. The profits of the shareholders had he lived; and in like proportions for are not therefore to be estimated by the difference in price between the cost of a skin at one of the company's forts in the interior. the business conducted with punctuality, and and its sale price in London. There are the the whole machinery of the company is heavy charges of different forts in the northworked with order and economy, under the west territories—the losses by non-fulfilwatchful care of a governor and committee ment of contracts (for the Indians, like the in London. Sales are made by public auc- Eastern nations, almost invariably require tion of furs or peltry, several times in each advances, and always endeavour to be in year, at the company's premises in London. debt to the Company)—the deficiency of There is no upset price for the goods: they skins or furs in scarce seasons—and the are sold to the highest bidder. The com- reduction in price at home—the long period pany has no monopoly, as some suppose, of for which the company lose interest on their the importation of furs, &c., into England; outlay, from the time of the transmission of they have to compete with the furs of the their goods from London, to the re-payment United States of America, of Russia, Nor- of the same in five, six, or sometimes seven way, &c., and if other traders can sell lower years, by the fur sales in London, as the than the company, the public have, of course, company always keep one year's stock of the benefit. Beaver and other skins are now goods on hand in their territories; the expense of obtaining and transmitting food and the steady supply from the Hudson's is often a heavy item, for at many of the Bay territories has materially tended to the company's forts, the poor Indians would reduction of the price of foreign furs and perish during unusually inclement winters, when the buffalo and deer flee from the the most extensive market for furs in the wind-swept plans to the shelter of the woods.

Whatever be the profits, after paying the whole expenses at home and abroad, they are divided, according to the provisions of the Deed-Poll just quoted, into fifths; of which three go to the proprietary, and two among the chief factors and chief traders of the company, instead of salaries. siderable expenditure is necessary to try new districts, which sometimes, however originally promising, are ultimately found not to answer, and the establishments have to be withdrawn at a loss. The expenses incident to the Red River settlement are also a drain. The annual dividend is now about six per

The Hudson's Bay Company have now At the about 136 establishments, besides hunting expeditions and shipping, affording employment to 25 chief factors, 27 chief traders, 152 clerks, 1,200 regular servants, besides occasional labour in boating and other ser-45s. to 12s,; martens, 14s. 8d. to 3s. 1d.; vices of a great number of the natives; a silver fox from £7 to 2s. per skin. But the steam vessel and five sailing vessels of 100 to Hudson's Bay Company are obliged to pay 300 tons, all armed. Their forts or stockthe same price to the Indians for all skins, aded positions extend from the coast of Labrador, westward to the Pacific, and from of St. Lawrence, from those which flow into the northern boundaries of Canada to the confines of the Arctic Ocean. Several medical officers are maintained for different forts, and at every large trading establishment; there is in fact an "Indian hospital" from which the natives derive the greatest benefit. as they resort thither in great numbers when suffering from age, infirmities, or other causes. Ministers of the Gospel of every denomination are protected and encouraged by the company, and a bishop of the church of England has been recently nominated for the newly created diocese of Rupert's Land.

Physical Aspect, Forts, and Stations.-It is difficult to convey an idea of the aspect of the vast territory belonging to the Hudson's Bay Company, or of that included in their trading heence. A large portion of the country east of the Rocky Mountains consists of inland seas, bays, lakes, rivers, swamps, treeless hills and hollows, "tossed together in a wave-like form, as if the ocean had been suddenly petrified while heaving its huge billows in a tumultuous swell."—Simpson's Life and Travels.

Beginning with the coast of Labrador, the prevailing features from 50° to 60° N. lat, and from 56° to 78° W. long., are, so far as we know, rocks, lakes, swamps, and mountains.

From the coast of Labrador, a ridge of table land runs nearly south-west to the source of the Ottawa river, and divides the waters which flow into the River and Gulf Hooker, 15,700 feet high, in lat. 52° 30' N.,

* The following is the second article of the treaty of 9th August, 1842, defining the boundaries between the United States and Canada .- " Article II -It 18 moreover agreed, that from the place where the joint commissioners terminated their labours under the sixth article of the treaty of Ghent, to wit, at a point in the Neebish Channel, near Muddy Lake, the line shall run into and along the ship channel between St. Joseph's and St. Tammany Islands, to the division of the channel at or near the head of St. Joseph's island; thence turning eastwardly and northwardly around the lower end of St George's or Sugar Island, and following the middle of the channel which divides St. George's from St. Joseph's Island, thence up the east Neebish Channel nearest to St. George's Island, through the middle of Lake George; thence west of Jonas' Island into St. Mary's River, to a point in the middle of that river about one mile above St. George's or Sugar Island, so as to appropriate and assign the said island to the United States; thence adopting the line traced on the maps by the commissioners, through the River St. Mary and Lake Superior, to a point north of Ile Royale in said lake, 100 yards to the north and east of Ile Chapeau, which last-mentioned island lies near the north-eastern point of He Royale, where the line marked by the commissioners terminates; and from the last-mentioned point south-westerly

Hudson's Bay; it may be considered the south-eastern boundary of the Hudson's Bay Company's territories. From the Ottawa this ridge (table land, or division of waters,) takes a generally west direction till it reaches the Rocky Mountains, in about 115° W. long., separating the waters of Rainy Lake River, Red River, and the Saskatchewan, which have their embouche in Hudson's Bay, from the Mississippi and Missouri, which flow into the Gulf of Mexico. This very slightly elevated feature was formerly considered to represent the boundary between the Hudson's Bay Company and the United States, to the westward of the source of Ramy Lake River. The treaty of 1818, defined Ramy Lake River, the Lake of the Woods, and the 49th parallel of latitude as far west as Rocky Mountains, as the boundary; and by the recent treaty, 15th June, 1846, the 49th parallel of latitude has been continued as the boundary west of the Rocky Mountains to the Pacific Ocean.* The Rocky Mountains have their northern extremity in the Arctic Ocean, lat. 70° N. long. 140° W., and run nearly S.S.E, parallel with the west coast, forming the eastern boundary of the Oregon region, sending off, at different places, spurs and buttresses, and dividing the waters that flow into the Atlantic from those that flow into the Pacific.

At Mount Browne, 16,000, and Mount

through the middle of the sound between Ile Royale and the north-western mainland, to the mouth of Pigeon River, and up the said river to and through the north and south Fowl Lakes, to the lakes of the height of land between Lake Superior and the Lake of the woods, thence along the water-communication to Lake Sarsaginaga and through that lake; thence to and through Cypress Lake, Lac du Bois Blanc, Lac la Croix, Little Vermillion Lake, and Lake Namecan, and through the several smaller lakes, straits, or streams connecting the lakes here mentioned, to that point in Lac la Pluie, or Rainy Lake, at the Chaudière Falls, from which the commissioners traced the line to the most north-western point of the Lake of the Woods; thence along the said line to the said most north-western point, being in lat. 49° 23 55 N, and in long 95° 14 38 W., from the observatory at Greenwich, thence, according to existing treaties, due south to its intersection with the 49th parallel of north latitude, and along that parallel to the Rocky Mountains. It being understood that all the watercommunications, and all the usual portages along the hne from Lake Superior to the Lake of the Woods, and also Grand Portage from the shore of Lake Superior to the Pigeon River, as now actually used, shall be free and open to the use of the subjects and citizens of both countries."

two of the loftiest peaks of the "Rocky soil at Churchill Fort (one of the Hudson's Mountains," a dividing range of moderate hills runs to the north-east, from whence flows some of the branches of the Saskatchewan, Churchill, or English River, Deer Lake, Winnipeg Lake, and those streams which feed Wollaston Lake, Athabasca Lake, Slave Lake, and also several other lakes. It is, however, difficult to say what waters flow towards Hudson's Bay, or towards the Arctic Sea, as several of the lakes have different outlets, and each lake communicates with another,-the Great Slave Lake, with Lake Athabasca: Lake Athabasca, with Wollaston and Deer Lakes, the latter descending by Churchill River into Hudson's Bay. For instance, the Oungigan or River of Peace descends from a ridge of the Rocky Mountains towards Lake Athabasca, or the Lake of the Mountains; when high it flows into the lake, but when low it receives the lake waters, and flows towards the Great Slave Lake, under the name of the Slave River Winnipeg, Winnipegos, and Manitoba Lakes. receive the waters of the Saskatchewan, Assiniboine, and Red River, and communicate with Hudson's Bay by the Nelson, and other rivers and conduits.

Mackenzie River runs northerly in its shallow course from the Rocky Mountains to the Arctic Ocean, in lat. 69° N., long. 135° W., but communicates in its progress with the Great Bear and Great Slave Lakes; excepting this, and also the Copper Mine and Back's Rivers, the course of all the other rivers and lakes of North-West America. east of the Rocky Mountains, would appear to be to the eastward. towards which the

whole country dips.

Viewing, therefore, the whole of the territories between the Rocky Mountains and Hudson's Bay, north of the 49th parallel, as one region, it may be considered as a series of lakes, rivers, and plains, with a gradual elevation from east to west. The northern territory, which was very imperfectly explored until the recent journeys of Dease, Simpson, and Rae, from 1837 to 1847, is intersected with lakes, marshes, and rivers to a greater extent than any part of the known globe; and it would seem as if the inner springs of the earth there burst forth. Some parts investigated are truly regions of desolation: vegetation ceases in the latitude of 60° north:—no land is seen capable of cultivation; the whole surface is rugged occurrence on board Captain Parry's ships,

Bay Company's stations, in lat. 59° N.) on the shores of the bay, is extremely barren, rocky, dry, and without wood for several miles inland; a few garden vegetables are with difficulty reared. At York Fort, in lat. 57° 2′, long. 93° W., the soil is low and marshy, and equally unproductive; and, though the trees are larger than those inland of Fort Churchill, they are still knotty and The country around the factory, dwarfish. although elevated above the river, is one entire swamp, covered with low stunted pine, and perfectly impenetrable, even in July, when it is infested by clouds of mosquitoes. The land seems to have been thrown up by the sea, and is never thawed during the hottest summer, with the thermometer at 90° to 100° in the shade, more than 10 or 12 inches, and then the soil is of the consistence of clammy mud; even in the centre of the factory it is necessary to keep on the platforms to avoid sinking over the About Albany Fort, in 52° N., ankles. and Moose Fort in 51° 28', the climate is more temperate, the soil better, and potatoes and garden produce are reared, but with difficulty. Proceeding farther west, the temperature improves, but all around Hudson's Bay, particularly at Fort Churchill, the climate is extremely severe; and from the middle of October to the middle of May, the country is buried under snow. The ice does not break up generally until July, and at York Fort, two degrees south of Churchill, the thermometer in January has been at 50° below zero. Even in rooms at the factory, where a fire is perpetually kept up, brandy freezes into a solid substance: the rivers and lakes, 10 to 12 feet deep, are frozen to the bottom, and the Hudson's Bay Company's European servants are obliged to observe the greatest caution against the effects of the cold air, which is frequently filled with small particles of angular ice, and when driven by the wind against the face or hands, raises the skin in white blisters, which break out in thin watery issues. As soon as a room is thoroughly heated, and the embers burnt down, the top of the chimney is closed so as to exclude the air, yet the walls of the apartment are found covered with ice two to three inches thick. Quarterly Review, No. xlix. vol xxv., 1821, Sir John Barrow thus adverts to a similar and uneven, and the open valleys nearly Hecla and Griper: -- "The month of March devoid of all vegetable productions. The set in mildly (at their retreat in Winter

Harbour) so that the solid ice, which for Hudson's strait, which is about 500 miles some time had lined the ship's sides, began to melt. It therefore became necessary to scrape off this coating of ice, on which occasion Captain Parry observes-" It will, perhaps, be scarcely credited, that we this day (8th March) removed above one hundred buckets full, each containing from five to six gallons, being the accumulation which had taken place in an interval of less than four weeks; and this immense quantity was the produce chiefly of the men's breath and of the steam of their victuals during meals." The Europeans in the service of the Hudson's Bay Company, notwithstanding their precautions, and the use of a large quantity of woollens and furs, are frequently frostbitten, and many of the natives fall victims to the severity of the climate. The sun is often obscured for weeks by thick fogs, caused by clouds of watery vapour ascending from the sea, which, being condensed by cold, hang all around the coast, and extend inland to a considerable distance. The "mock suns" and moons, called Parahelia and Paraselene, appear very frequently in the coldest months. The temperature of the air is subject to the most capricious variations; rain sometimes falls abundantly with a serene sky, or the sun will burst forth in the midst of the heaviest showers. Such is the region in which several of the Hudson's Bay Company's establishments are situated, and which could not be maintained but for the possession of some more temperate regions, from whence food is procurable.

Hudson's Bay, discovered by John Hudson in 1610, is about 900 miles in length, by 600 at its greatest breadth, with a surrounding coast of 3,000 miles, between the parallels of 51° and 65° N. lat. The coasts are generally high, rocky, rugged, and sometimes precipitous. The bay is navigable for a few months in summer, but for the greater part of the remainder of the year is filled up with fields of ice. The navigation, when open, is extremely dangerous, as it contains many shoals, rocks, sand banks, and islands; even during the summer icebergs are seen in the straits towards which a ship is drifted by a squall or current, rendering it very hazardous for the most skilful seamen. The transitions of the thermometer in summer are from 100° to 40° in two days, and the torrents of rain are surprising: whether in flows to the northward across the American winter or summer, the climate is horrible; the range of the thermometer throughout bonne, or Nadawoss River, at Fort Garry, the year is 140°. The sea is entered by in 50° N. lat., and then disembogues into

long, with a varying breadth, and with an intricate navigation through several islands. viz.: Charles, Salisbury, Nottingham, Mansfield, and Southampton. The principal bays and inlets in this great inland sea, are, James's Bay, in the south-east, which is 240 miles deep by 140 wide; Button's Bay, and Port Nelson, on the western coast; Chesterfield Inlet on the north-west, which, after stretching far into the interior, terminates in a fresh water lake; Roe's Welcome. a deep strait on the north coast, and also Repulse Bay.

We may now examine the country between Hudson's Bay and the Rocky Mountains. commencing with the lakes and rivers. The Great Bear Lake, the most northerly, is 150 miles in diameter, and communicates by Lake Martin with the Great Slave Lake, which is estimated at 260 miles from E. to W, and 30 from N. to S Captain Back considers it as large as Lake Michigan; its soundings are from 40 to 60 fathoms. The north side of the lake is an entire jumble of rocks and hills: the south is level, not a hill or stone to be found The Great Slave River joins this lake to that of Athabasca, which is 180 miles long and 15 broadreceives the Peace, Athabasca, and Stone rivers; the latter river forms the channel which conveys a portion of the waters of the Wollaston Lake (situated on table land) into Athabasca Lake; another portion of the waters of Wollaston Lake flows in a contrary direction through Deer Lake and River into the Missinnippi, Churchill, or English River, which forms several smaller lakes, and finally disembogues into Hudson's Bay, at Fort Churchill, in lat. 55° 45' N., long. 94° 25′ W.

Lake Winnipeg, in lat. 50° 20' to 53° 45' N, is 240 miles long, and from 5 to 50 broad. It receives the river Saskatchewan, as it flows from the Rocky Mountains and northern ridge; also the Red and Assiniboine rivers, and discharges itself into Hudson's Bay by the Nelson and other rivers. Winnipegos and Manitoba are branch or tributary lakes to Winnipeg.

That the trend of the land, and the dip, is towards Hudson's Bay and the eastward. is evident from the course of the Red River. which rises in about the parallel of 46°, boundary parallel of 49°; joins the Assım-

the south-western part of Lake Winnipeg, which, as before stated, discharges into Hudson's Bay. The Moose River, which flows from the dividing ridge of highlands, which separates the Hudson's Bay territories from Canada, runs for 230 miles in a north-east direction, and has its embouche in James's

Bay, lat. 51° 10' N., long. 81° W.

The country between the sources of the Assiniboine, in 51° 15′ N., and the Red River, is almost a continued plain, the soil of sand and gravel, with a slight intermixture of earth, which produces a short grass; but trees are rare. The country around the southern part of Lake Winnipeg is well wooded and watered, and abounds at seasons with herds of buffalo and deer; so also contiguous to the Winnipegos Lake and Swan River, and along the route from Carlton to Isle à la Crosse Forts in the 55th parallel The northern part of Lake Winnipeg is composed of banks of naked black and grey rock. Farther north, occasionally greener spots are to be met with: some of the islands in the Great Slave Lake are clothed with tall poplars, birch, and pines, and well stocked with deer. Near the portage La Loche is a precipice upwards of 100 feet above the plain, from whence, according to Mackenzie, there is a "ravishing prospect."—the Swan (Pelican, or Clear Water) River meanders for thirty miles through a valley about three miles in breadth, confined by two lofty ridges of equal height, displaying a delightful intermixture of wood and lawn. Some parts of the inclining heights are covered with stately forests, relieved by verdant promontories, where the elk and buffalo enjoy delicious pasturage.

The route from the Red River settlement (Fort Garry) to Fort Chipewyan, on Lake Athabasca, was traversed in December, 1836, by Mr. Thomas Simpson, by the following stages, in a very short space of time:-

	Miles		Days
Fort Garry (Red River) to Fort Pelly	. 394	in	15
Fort Pelly to Fort Carlton	. 276	**	12
Carlton to Isle à la Crosse	. 236	**	7
Isle à la Crosse to Fort Chipewyan	. 371	,,	12

1277 in 46 Total . .

These, and other forts and stations, are necessarily wide apart, and in situations favourable to water communications, and to

Fort Garry, the principal station of the Red River Settlement, is situated at the forks of the Red and Assiniboine rivers, about fifty miles from Lake Winnipeg, and is environed by plains; proceeding north-west the country is studded with a few copses of poplar and dwarf oak; but the greater part having been swept in 1835 by the running fires (so frequent and terrible in the prairies), presented a blackened and dismal aspect. There were a number of small natural mounds on which lay fragments of limestone, the great basis of the plain region. and quantities of little shells were strewn

about in every direction.

The soil and climate about Manitoba, or "Evil Spirit" Lake, is similar to that of the Red River. At Winnipegos Lake the oak region terminates; but the shores are clothed with elm, poplar, and a few ash, birch, and pine-trees. The water in this lake is brackish in summer. At Duck Bay the first wood of pines was seen. The route from thence to Fort Pelly, south-west, hes through swampy meadows, alternating with woods of poplar, fringed with willow, and a few straggling clumps of pine in the neighbourhood of the Swan River and Duck Mountain, with its "rude and impassible heights." Thence west to north he the Porcupine Hills, wooded to the very summit Thunder Hills are about two miles in breadth, steep; and beyond them to the northward is Fort Pelly, in 51° 45′ 20″ N. lat.-102° 5' W., near the bank of the Assimboine River. The track thence to Fort Carlton, hes through gently undulating eminences along the wooded banks of the tortuous Assimboine, thence due west, leaving the Assimboine far to the south, over a hillocky country, tolerably wooded, and abounding in small lakes and swamps to the west end of Stoney Lake, through a country consisting of narrow plains, studded with clumps of poplar, interspersed with little lakes and swamps: a great part of this district had been recently overrun by fire. Changing the course from west to westsouth-west, the traveller reaches the immense prairies of the Saskatchewan River, of which entire tracts are frequently bared by fire to the very soil. The cold in these plains in winter, with the wind from the westward, is terrific; there is not a shrub or procuring animal, or, if possible, vegetable even a blade of grass to break the force of food. The aspect of the country in which the blast, whose temperature is at least 40° these forts are constructed, I have gathered below zero. The only exposed part of the from the observations of Mr. Simpson.— traveller, the eye-lashes, becomes speedily

covered with a heavy crop of icicles, which open country, consisting of rising grounds, the half-frozen fingers have a difficulty in or "coteaus," with bare ridges, and sides removing. These plains are frequented in clothed with dwarf poplar and brushwood; summer by the Indians as hunting grounds, while here and there, in the hollows, we although the fierce heat is then little crossed large ponds, scarcely deserving, on more endurable than the cold in winter. this continent, the title of lakes. They have Throughout this country, says Sir George no outlet; and on cutting through the ice Simpson, everything is in unparalleled for water, we generally found it putrid. droughts balanced by drenching rain and country, that we were often fain to use it destructive hall (sometimes 5½ inches in cir- when most nauseous, taking the precaution cumference). At one period both whites of imbibing it through snow, which purifies and natives are living in wasteful abundance it in some degree. We now turned weston venison, buffalo, fish, and game—at south-west for eight miles, keeping along a others reduced to the last degree of hunger, broad and rather winding ridge, which apoften passing everal days without food. In peared to furnish the buffalo with a regular 1820, when wintering at Athabasca Lake. Sir George Simpson says, he was for three days and nights without a morsel of food Frequently hundreds of fine buffaloes are killed for the tongues alone. On one occasion Sir G. Simpson saw several thousand buffaloes putrifying the air for miles around Unsheltered plains extend far to the south, to the ridges in lat 49°, whence the Missouri descends. One of the prairies of the Saskatchewan crossed by Mr. Simpson, was forts are situated in the country N.W of fourteen miles wide, and only a few willows were thinly scattered on its surface. country south of the Saskatchewan towards Assiniboine, has in various places lakes as salt as the Atlantic Ocean. As this region, which extends to the Rocky Mountains, has been erroneously considered adapted for sometimes—44°, equal to 76 degrees of frost. European colonization, the following extract from Mr. Thomas Simpson's Journal may "Christmas help to dispel the illusion. Day, Sunday, the 25th: On shaking off our slumbers this glad morning, a troop of wolves were 'baying the moon,' as she rode in a cloudless sky. The country before us being intricate, we could not start till daylight; and when we sallied forth on our day's march, the weather had moderated. About two miles from our resting-place, we passed over a round hill, and stood awhile on its summit to enjoy the boundless prospect. From west to south stretched a vast plain, separated from another, of which we the pine forest, in lat. 53° 30' north; thence had a bird's-eye glimpse to the north-east, by the broad belt of woods which we had tract of fourteen miles in extent, which been skirting along; while before us, in our divides the waters that flow towards the line of march, lay outspread a seemingly Saskatchewan and Churchhill Rivers. From endless tract of open underwood, varied by Green Lake to Beaver River is swampy and gently swelling eminences. For seven miles wooded; and thence to Long Lake chain our route led west-north-west, through are pine woods. Fort La Crosse, in 107° thickets and over hillocks; it then changed 54' 30" W. on the border of the lake, is to west for fourteen miles, through a more neat and compact; the country around low

Cold and excessive heat,-long such, however, is its scarcity in that level road of ingress to the woods. Several tracks of moose-deer were also seen during the day. After sunset, we took up our quarters in a small clump of poplars. The whole country having been ravaged by fire, we could not find dry grass, as usual, for our beds, and spread our Christmas couch on willow branches; rough indeed, but rendered smooth to us by health and exercise."

Several of the Hudson's Bay Company's the Red River. Fort Pelly is a compact. well-ordered post on the route from Fort Garry, on the Red River, to Fort Carlton It is sheltered on the north by a range of woods, and has the Assimboine River in front: the cold in December is terrific.

Carlton Fort is situated on the south side of the Saskatchewan River, and is defended by high palisades, and a gallery surrounding the whole square, planted with wall pieces, into which, however, the Indians fired several times during the summer of 1835. Provisions were unusually scarce, when visited by Mr. T Simpson in 1836, the great fires in autumn having driven the buffalo to a distance. The route to Fort La Crosse lay first through an open country consisting of low, round, grassy hills, interspersed with clumps of poplar, occasionally of pines, and with many small lakes to the boundary of hills, lakes, lakelets and brooks, to a hilly

with the Athabasca River, whose broad lake. bosom is studded with numerous islands that

give it a lake-like appearance.

At Fort Chipewyan, lat. 58° 43′ 38" N.. long. 111° 18′ 32″ W., the surface consists of rocks and swamps, and the climate preeven potatoes have to be brought down from Fish River; and when the coarse grass, cut in the swamps for the use of the few horses and oxen required for drawing fire-wood to the fort, fails, fish from the Athabasca river is the only provender obtainable for the cattle. Fort Edmonton is situated on the northern branch of the Saskatchewan River, in lat. 53° 45′ N. long. 113° 10′ W., and was visited by Sir G. Simpson in his progress from the Red River to the Columbia and Fort Vancouver. The fort is of an hexagonal form, well built, with high pickets and bastions, and battlemented gateways; it is on an almost perpendicular height commanding the river. The fort is painted inside and out with devices to suit the taste of the savages who frequent it. Over the gateceilings and walls of the hall present gaudy colours and fantastic sculptures, which the Indians admire. The buildings are smeared with red earth, the savages are awed by so much finery, and respect what appears to them grand structures

The settlement on the Red River, distant from Montreal, by the Ottawa River, about 1,800 miles, in lat. 50° N., long. 97° W., is which the settlement extends for fifty miles. climate salubrious, but summer frosts generated by undrained marshes, sometimes York, Montreal, &c. blast the hopes of the husbandman. The hay for the settlers' stock during the long contributed one to the list. There is also

and swampy. At the portage La Loche, and severe winter, which lasts from Novemnorth of Fort Crosse, the hills are a thou- ber to April, or May, when Lake Winnipeg is sand feet in height, steep, and command a unfrozen, and the river navigation to Hudfine view of the Clear water River, and its son's Bay commences, vid Norway House picturesque valley; thence to the confluence entrepôt, at the northern extremity of the

The population is in number about 8,000. consisting of Europeans, half-breeds, and Indians. The two principal churches, the protestant and Roman catholic, the gaol, the Hudson's Bay Company's chief buildcludes all prospect of rearing farm produce; ings, the residence of the Roman cathohe bishop, and the houses of some retired officers of the fur trade, are built of stone, which has to be brought from a distance; but the houses of the settlers are built of wood, whitewashed or painted externally.

Land is granted to the settlers at 7s. 6d. per acre; there is no restriction but in the purchase or sale of furs and spirits, and only a slight import duty is imposed on other commodities, the proceeds of which duty are received by the municipality of

Assimboine.

The colony is governed by a corporation called the Council of Assimboia, which, in virtue of the Royal Charter of 1670, exercises judicial as well as legislative authority, under an able Recorder.

The currency is one of the best established ways are a fantastic pair of vanes, and the in any colony. It consists, with the addition of silver and copper coin, of notes issued by the Hudson's Bay Company, which are payable at York factory, by bills on the company in England. This circulation is absolutely essential; gold or silver would soon be hoarded, melted, or lost; and a note issued by the government of the place, receivable in payments, of acknowledged exchangeable value, devoid of fluctuation in elevated 800 feet above the sea, in a level exchanges, and convertible, without loss or country, contiguous to the wooded borders risk, into cash in England, is an advanof the Red and Assimboine Rivers, along tageous monetary circulation for any settlement, and not a grevance or subject of The soil is comparatively fertile, and the complaint. Commodities to the full value of the notes can always be obtained at New

The population of the Red River settle-Hudson's Bay Company, by the introduc- ment, in 1843, was 5,143, of which number, tion, at a great expense, of rams and other 2,798 are Roman catholics, and 2,345 are stock, have improved the breed of domestic Protestants. The heads of families are 870; animals, which are now abundant: wheat, of whom 571 are Indians or half-breeds, barley, oats, maize, potatoes, and hops natives of the territory; 152 Canadians; thrive; flax and hemp are poor and stunted. 61 Orkneymen; 49 Scotchmen; 22 English-The river banks are cultivated for half a mile men; 5 Irishmen; and 2 Swiss. Wales, inland, but the back level country remains Italy, Norway, Denmark, Germany, Poland, in its natural state, and furnishes a coarse and the United States of America, have each

one Esquimaux Indian. dwelling-houses, 1,219 barns or stables, 18 windmills, and I water-mill. There are 182 horses, 749 mares, 107 bulls, 2,207 cows, 1,580 calves, 1,976 pigs, and 3,569 sheep.

River settlement, that "it affords a wonderfully striking example of good brought by the hand of God out of evil." His lordship thus describes the churches there:-"Along the strip of settlement which occupies, with interruptions, the opposite sides of the river. the four English churches are situated The Indian church is about 13 miles below the lower church at the rapids; this again is about 6 from the middle church; and the middle church about 7 from the upper. The Indian church is a wooden building, painted white, 50 feet or upwards in length, with a is also of wood, and of the length of 50 feet The middle church, which is not quite comunaided exertions of the congregration, is an edifice of stone, 60 feet long. The upper church, which is also of stone, is 10 feet longer, and will accommodate 500 persons"

There are scattered about the Red River settlement several respectable retired factors or traders of the company; some married to European, more to native wives. Although the style of the establishments at the forts is exceedingly plain, and the extreme difficulty of transport, as well as the isolated character and remote situation of the place itself, cause a variety of articles to be dispensed with to which some of the inmates have been elsewhere accustomed, yet there is far from a deficiency to be witnessed there, either of comforts or of habits o' refinement. Its communications with Eng land—are for goods via Hudson's Bay during the summer season, and for personal travelling and letters, via Montreal, from which the Red River is distant 1.800 miles The company have, along this line, abou-10 stockaded posts. The Bishop of Mon treal traversed the distance in 38 days.

We may now proceed to examine the Pacific coast and the Rocky Mountains. whose highest ridges are in the parallels of 52° to 53°, about 8,500 feet. Some peak rise to 15,000 and 16,000 feet, but the gene ral range is-4,000 to 6,000 feet, diminishing in height towards the north. This granitic mountain chain is from 50 to 100 miles wide

There are 730 The country termed New Caledonia, between he Rocky Mountains and Cascade Mounains, near the coast of the Pacific, is well watered, undulating in bold swells, with occasional plains and copses, and an abun-The Bishop of Montreal says of the Red dance of forest trees, of which the cedar, fir, and hemlock, grow to a prodigious size.

In New Caledonia, the Hudson's Bay ompany have several stations, and also in he adjacent country. Fort Alexandria, in 52° 30' N., is the residence of one of the company's chief traders, and here the navigation of Frazer's River is begun by the northern brigade on their way to the north, A small open space is cleared for a few cattle, but the rest of the country is covered with a dense forest. Fort Thompson, on the Kamoop's River, is in 50° 38' N., and 120° 7' 10" W. Frazer's, Babine's, and McLeod's Forts cupola over the entrance. It has square- are on the lakes of the same names. Fort topped windows, which, so far, give it an un- St. James, on Stuart's Lake, was the resiecclesiastical appearance. The lower church dence of chief factor Ogden, who had charge of the New Caledonia department.

Frazer's River flows through New Calepleted, and which has been built by the doma, but is not navigated below Fort Thompson, owing to its dangerous falls. The distances from Fort Thompson to Fort Alexandria, by land, is 150 miles, and thence to Fort James 120. Commodore Wilkes says that the climate of this region is unfavourable to agriculture, in consequence of its being situated between the two ranges of mountains, viz., the Rocky Mountains on the east, and the Cascade Mountains (of the coast) on the west, both of which ranges are constantly covered with snow, and in the plains or villages snow lies from November to May six feet deep. The commodore adds, "there are many spots of fertile land along the rivers, but the early frosts are a great obstacle to agriculture. At St. James, Babine, and Frazer's Forts, only potatoes and turnips can be cultivated." Frazer's River has its embouche six miles to the north of the 49th parallel, which defines the United States' boundary. It is about a mile wide, the country around low, with a rich alluvial soil. Fort Langley is 20 miles from its mouth.

Sir George Simpson made a journey of 2,000 miles in 47 days from the Red River, via Fort Edmonton, to Fort Colville in 1841. He crossed the Rocky Mountains at the confluence of two of the sources of the Saskatchewan and Colombia, near Fort Kotanie, at an elevation of 8,000 feet above the sea, with mountains rising about half that altitude around. The descending country to the Kotanie River was rugged and

boggy, with thick and tangled forests, craggy and communicates with Babine Lake, where peaks and dreary vales, here and there hills the Hudson's Bay Company have a fort. of parched clay,—where every shrub and The Company have also an establishment on blade of grass was brown and sapless,—as if Pitt's Islands, in the north-western Archinewly swept by the blast of the sirocco; pelago. with occasional prairies and open swards, 30 miles long by six wide without a tree, and environed by mountains. The natives of these regions were in a wretched condition.

The coast abounds with harbours, inlets, and islands. The north-western Archipelago, which lies north of Vancouver's Island, belongs partly to England and partly to Russia. The islands within the British dominions are of various sizes; the largest, named "Queen Charlotte's Island," is somewhat of a triangular form, lying nearly north and south, the south point in the parallel of 52°. The superficial area is less than that of Vancouver's Island: it has several good har-53° 20' N. lat.; Cummashawa, near 53° N.; north-west extremity of the island. especially Port Estrada (Hancock's River), mild.

Queen Charlotte's island is admirably adapted for the formation of a penal settlement, by its distance from England, its complete insularity, adaptation for the support of a large convict settlement by the labour of the prisoners, the impossibility of escape, the improbability of the transported being ever enabled to return to England, and by the useful purposes in which the convicts may be employed in the formation of a fortress and a colony in the Northern Pacific. contiguous to China and Japan.

The Princess Royal Islands he nearer to the main land, between the parallels of 51° and 54° N. lat. Of the interior of the whole of these islands, little or nothing is known; the largest are traversed by mountain ridges in the direction of their greatest length from south-east to north-west. The adjacent coast is of very irregular outline, with numerous bays, inlets, and winding channels, forming a

The north-west coast and interior, north interspersed with gloomy woods or burning of the parallel of 55°, is described as expine forests. In one place a valley was seen tremely rugged; lofty mountains, covered with snow, rise abruptly from the ocean; more inland, the whole region consists of Alpine masses, thrown together in the wildest confusion, so that a level site for a fort can hardly be found within any convenient distance from a stream or lake. It is a land of rocks, as difficult of access as it is impracticable in itself, except at the very margin of the sea. Most of the streams to the north of Frazer's River, are mere torrents fed by melting snow in summer, and in winter by the unceasing deluges of this dismal chmate; these streams form deep valleys in the precipitous heights of every form and magbours, viz., on the north coast, Port Estrada, nitude in their progress to the ocean. Hence near Sandy Point, and Croft's Sound, a little the term "Cascade Mountains," given to farther west. On the east side, Skitekis, in the coast line north of Vancouver's Island. The company hold under lease from Russia, and Port Sturges, farther south. On the a fort on the Stikine or Pelly's River, where west, or Pacific coast, Magee's Sound, in the climate and country are alike miserable 52° 1' N. lat.; and Port Ingram, near the in the extreme, and their effects are in-The creased by the putridity and filth of the country around some of these harbours, adjacent Indian village. At this fort, in April 1842, the gentleman in charge was and Magee's Sound, is said by the Americans shot in a scuffle, and 2,000 savages encamped to be fertile, and the climate comparatively around were preparing to rifle the fort, when, fortunately, Sir G. Simpson arrived in a Russian steamer. Taco Fort, under Dr. Kennedy, an assistant, and 22 men, is still farther northward on the coast, surrounded by 4,000 savages, warlike and ferocious, who at first captured Dr. Kennedy and his assistant, and required for their ransom four blankets. The fort is now strong.

Fort M'Loughlin, on the north-west coast, near Milbank Sound, was formed in 1837, on one of the most rugged spots imaginable. By great and unwearied exertions for several years in blasting, levelling, and gravelling, the company's officers have made a strong fort on a rock capable of holding out with 20 men, against all the Indians of the coast. An enclosed surface of three acres has been covered with sea-weed and made into a garden, producing potatoes, carrots, turnips, cabbages, &c. It is probable that on the north-west coasts adjoining to Vancouver's Island, and Queen Charlotte's Island, many labyrinth of passages. Simpson's River, on spots available for European colonization our north-west boundary, has a deep inlet, will be found. The climate on the coast of the Pacific is much milder than similar lati- are chiefly of the Ojibeway or Salteaux Intudes on the Atlantic or opposite shores of dians. On the W. shore of Lake Superior is the American continent.

Some of the principal forts belonging to Falls of St. Marv.

the Hudson's Bay Company, are:-

tion of the Hudson's Bay Company has control over the extensive region west and north of Hudson's Bay, bounded by the Arctic son's Bay, and is distant from Montreal Ocean, the Rocky Mountains, and a line about 1,300 miles. The neighbourhood of drawn from the bay through Rainy lake. Among the posts dependent on York fort, are, those of forts Churchill and Severn, and the forts or houses on the different rice are very abundant. lakes-viz. Trout, Beaver, Cat, Swampy, Split, Nelson, Deer, La Rouge, and La Crosse. There are also Rock-house on Hill river, and Oxford house, Holy lake. On the Saskatchewan, are the forts or stockaded houses, called Cumberland, Carlton, Manchester, Edmonton, Acton, or Rocky Mountain. On Lake Athabasca are forts Chipewyan, Wedderburn, and Fond du lac; on the Mackenzie river in its course to the Arctic Ocean, forts Simpson, Norman, and Good Hope; and on the upper part of the same river, forts Vermillion, Dunnegan, and Rocky Mountain.

2. Moose Factory is about 700 miles from the city of Montreal, in Lower Canada, and is the company's principal depôt on the southern shores of Hudson's Bay. Connected with this establishment, there are numerous stations: some of which are at a distance from the Fort, varying from 100 to 250 miles. The forts and stations in the country between Hudson's Bay and the lakes in Canada, are under this superintendency. On James's Bay, are, Albany fort, East Mainfort, and Rupert's house. On the river Albany, are, Martin's Fall, and Osnaburg houses; on the Moose or Brunswick river, is New Brunswick house, and to the south-east, Frederick house. There are establishments on the small lakes Abbitibbe, Mistasinny, Big, Wagwanappy, and Temis-The Indians, in this district of country, are principally of the Swampy Cree tribe, with a few Esquimaux at an establishment called Big River, which is about 250 miles to the north-east of Rupert's River.

3. Michipicoten is the principal factory belonging to the company on the shores of Lake Superior; within and around which, and the different establishments in that extensive range of country, there is a conside- thriving establishment at Fort Vancouver, in rable population of Europeans and half the Oregon country, recently ceded to the castes, as well as of native Indians, who United States.

Fort William, and there is a post at the

4. Lac la Pluie is a trading post of the 1. York Fort-The most important sta- company, situated near the height of land which divides the waters falling into the St. Lawrence from those that fall into Hudthis place is a great rendezvous for Indians from the surrounding country, during the summer, as the means of hving on fish and

> 5. Fort Alexander is formed at the outlet of the River Winnipeg, and is distant from Montreal 1,500 miles. It is much frequented by the Indians, who, as well as those that visit Lac la Pluie, belong to the

Ohbeway or Salteaux tribes.

6. Edmonton is an establishment on the Sackatchewan River, which has its source on the Rocky Mountains, and disembogues itself by Nelson River into Hudson's Bay. It is distant from Montreal 2,800 miles. From thence to the Athabasca River, which also has its origin on the Rocky Mountains, the establishments are frequented by the bold and daring prairie or plain tribes of Indians, including the Assimboines, the Peragans, the Sarcees, and the Blood Indians. The Thickwood Crees and Assiniboines amount, with the whites and mixed population attached to the station, to between 15 and 20,000 souls.

7. Norway House, one of the principal depôts belonging to the company, is situated at the northern end of Lake Winnipeg, and is distant from Montreal 2,000 miles. There is an Indian village connected with this place, the inhabitants of which derive great advantages from the proximity of the company's establishment, where the Indians, who are a part of the Swampy Cree tribe, find permanent employment as fishermen, boatmen, and labourers. Beren's river house and Fort Alexander are also on Lake Winnipeg. At Ungava Bay, at the entrance of Hudson's Strait, there is a station for collecting the produce of the coast of Labrador, consisting chiefly of oil from the seal and porpoise; and there are establishments for taking and curing salmon, which is sent to the Quebec market.

The Hudson's Bay Company possess a very

estimate of the number of inhabitants in north-western America is given in an official son's Bay Company, and from the best report of Lieuts. Warre and Vavasour, as a obtainable information: it is dated, "Fort "Census of the Indian Tribes in the Oregon | Vancouver, 1845."

Population. — The best approximative territory from latitude 42° to latitude 54°. derived from the trading lists of the Hud-

Name of the Tribe.	Where situated.	Males	Females	Children under 12 years.		Total.
Quacott.—Nuvette and 27 others	From Lat 54° to Lat 50° including Queen					
Tribes speaking generally the Qua- cott language.	Charlotte's Island; North end of Van- couver's Island, Milbank Sound and	10.000	00.017		1 570	40.00
Massettes and 13 tribes, not included with the above, and speaking dif-	Island, and the main Shore On Queen Charlotte's Island, not included in the above	19,020 3,232	20,21 <i>5</i> 3,381		1,010	40,806 6,613
ferent languages Nass Induans, 4 tribes speaking the same language.	Nass river on the main land	857	746		12	1,615
Chymsyans, 10 tribes, all of whom speak the same language, with a different idiom	Chatham Sound, Portland Canal, Port Es- aington, and the neighbouring islands.	1,202	1,225		68	2,495
Skeena Indians, 2 tribes Labassas Indians, 5 tribes.	At the mouth of the Skeena river Gardner's Canal, Canal de Principe, Canal	195	120		7	322
Milbank Sound, 5 tribes.	de la Reida Milbank Sound, Caceade Canal, Deane Canal, Salmon river, and the islands on	717	601	٠	111	1,429
Challams - Cowartchims, 24 trabes,	the coast	784	797		47	1,628
speaking the Challam and Cowaitz- chim languages	Whitby Island in lat 48°, part of Van- couver's Island and the mouth of Franc's	3,176	3,383		2,868	9,427
New Caledonia Indians—'8 tribes known)	M'Leod's Lake, Chelertins, Fort George, Alexandria in Fraser's river, Consily Lake, Babine Lake, Fraser's Lake,					·
Sanetch Indians, 3 tribes	Stuart's Lake Straits of St Juan de Fuca and Vancou-	1,265	1,150		210	2,626
Hallams, 11 tribes	ver's Islands	194 517	152 461	99 467	40	1,48
Sinahomish, 1 tribe.	Ditto . ditto	208	118	230	13	569
Skatcat, 1 tribe	Ditto ditto	173	161	191	18	54
Cowitchici, 7 tribes	Ditto ditto	524	636	585		1,76
Soke Indians, 1 tribe Cowitcher, 3 tribes, not as yet ascertained (say)	Ditto . ditto	89	89	12	: :	80
Gulf of Georgia Indians, exact num- bers not ascertained	Cape Flattery (about)		: :	: :	٠.	1,25
Nasqually, 13 tribes Two tribes in Cavletz river (about) Cheenooks, Clatsops, and several	Nasqually river and Puget's Sound	1,835	1,997	. :	182	4,014 500
tribes near the entrance of the Columbia river	mty					429
Trile Kalets, several tribes. Vule Puyas, several tribes	Near Fort Vancouver in the Columbia . Valley of the Williamatu river .	• •				500 300
Clakamus, several tribes	Valley of the Clakamus and the Willa- muta Falls					200
Cheanooks, Kelussuyas, 4 tribes	Pillar Rock, Oak Point, The Dallas, The Cascades, Cheate river, Takama river on the Columbia					
Kıllamooks, 3 tribes	On the sea coast, between the river Colum-					1,500
Clamets, several tribes Walla-Walla, Nez Perce, Snakes, and several tribes	Roquas river near the south boundary One of the South or Snakes branch of the Columbia, extending to near the Rocky		: :	: :		80
Colville and Spokane	Mountains Near Fort Colville on the Columbia	• •				3,00 45
Okanagan, several tribes	On the Okanagan and Piscour rivers	1 : :			::	30
Kullus-Palus, several tribes.	On the Flathead or Clarke river				: :	30
Kootoonais, several tribes	On M'Gillivray's river, the Flat Bow Lake, &c.					4.5
					5.146	

Recapitulation.—Males, 33,956; females, 35,182; children, 1,584, of both sexes, under 12 years of age; slaves, 5,146. Total, 75,868, of whom an accurate census has been made: 11,079, estimate of tribes, of whom no census

86,947 Indian population, from latitude 42° to latitude 54° N.

"The Indians of Puget's Sound and the Straits of De Fuca, also those farther to the north, appear to be more numerous than those of the interior, and culhas been taken; showing a grand total of tivate large quantities of petatees, &c. for their own

1se, and to barter with the vessels frequenting the coast. They are not so cleanly as the Indians of the prairies, nor are they so brave or warlike. Many of the latter tribes are a very fine race of men, and possess large herds of cattle and immense numbers of horses. In the neighbourhood of Walla-walls, individual Indians were pointed out to us who owned more than 1,000 horses. Slavery is common with all the tribes; and he who possesses most slaves and the largest number of horses, is considered the greatest chief. The Indians of the north are sometimes troublesome; but those of the Columbia are a quiet, inoffensive, but very superstitious race To this last cause may be traced their quarrels with the white man and with one another. They are well armed with rifles, muskets, &c., but, from policy, they are much stinted by the Hudson's Bay Company in ammunition. The Indian tribes do not remain upon the same ground during the whole year. In the summer they resort to the principal rivers and the sea coast, where they take and lay by large quantities of salmon, &c. for their winter consumption, retiring to the smaller rivers of the interior during the cold season Neither the Roman catholic nor Methodist missionaries have done much towards reclaiming the Indian population, who are an idle, dissolute race, and very few of them can be induced to change their mode of life, or cultivate more than will absolutely keep them from starvation. The total abolition of the sale of mtoxicating liquors has done much for the good of the whole community, white population as well as Indian; and so long as this abstinence (which can hardly be called voluntary) continues, the country will prosper When this prohibition is withdrawn, and the intercourse with the world open, such is the character of the dissolute and only partially reformed American and Canadian settlers, that every evil must be anticipated, and the unfortunate Indian will be the first to suffer

The Esquimaux occupy the country bordering on the Arctic Seas, Hudson's Bay and The In-Strait, and the Labrador coast. dians roam over the country, in summer following the buffalo, deer, and other wild animals into the districts occupied by the Esquimaux, with whom they are generally in a state of hostility; and as the winter advances, they return towards the more southern regions. A district termed the Saskatchewan, east of the Rocky Mountains, as large as England, contains only 16.730 Indians and Half-breeds, viz.. Crees, 3.500: Assimboines, 4,060; Blackfeet, 2,100, Piegans, 2,450; Blood Indians, 1,750; Sarcees, 350; Gros-Ventres, 2,100; Salteaux, 140: Half-breeds (a race whose fathers were Europeans, and mothers Indians), 280.

The following is a classification and distribution of the tribes occupying the country east of the Rocky mountains, and resorting upon occasion to the company's establishments:—

Mackenzie's River District.—The Copper Indians, inhabiting the country about this river; the Loucheux, or Quarrellers; the Hare Indians; the Dog-

rib Indians; the Strong-bow Indians, inhabiting Mackenzie's River district, and speaking different languages.

languages.

Athabasca and Isle a la Crosse Districts—The Chipewyans, and a few of the Cree tribe; inhabiting the country surrounding this lake, and between it and the Isle à la Crosse district.

Peace River District—The Beaver Indians, and a few Sauteaux from the Ramy Lake, inhabiting both sides of this river, and speaking a language different from that of the Chinewans of Athabase

from that of the Chipewyans of Athabasca
Upper part of the Saskatchewan District—The
Blackfeet Proper the Blood Indians; the Piegans;
the Fall Indians, the Sarcees. All these tribes are
generally termed Blackfeet, although they speak different languages, and have different customs and
manners

Lower part of the Saskatchewan District — The Stone Indians, or Assimbones, the Crees, the Sauteux, or Ogibways. These three tribes are constantly at variance with the Blackfeet, and the whole eight depend on the chase for subsistence They, i we the three tribes, extend their habitations also to the upper part of Red River and of Swan River.

York Factory, Oxford, Norway House, Cumberland, and lower part of Sucan Ruer Dustrict—Mis-Kee-Goose, or Swampy Indians These also extend along the sea-coast to James's Bay They evidently spring from the Crees, as their language is only a dialect of the Cree There is said to be a mixture of the Sauteux in their origin

Churchill District — Esquimaux; Chipewyans, and a few Swamp Indians, inhabiting the country to the north of Churchill

The Indians in James's Bay are generally classed with the Mis-kee-goose, and inhabit the countries about Albany, Moose, and East Main

Character of the Indian Population.—It is difficult to describe the character of the various tribes referred to in the preceding classifications, they have each some recognised difference, and are most of them in a constant state of warfare with each other The Sarcees are said to be the boldest. have horses and fire-arms, and horse-stealing is a favourite occupation with them. Crees and Blackfeet have deadly feuds, and each combat with the Assimboines. small tribes are drawn into the contests of the larger, and are rarely at peace Ambuscades, surprises by day or night, and treacherous massacres of the old and young, of women and the sick, constitute the moving interests of their lives. No hardships of inducements will make them settle and cultivate their land, and until they do so, it is almost hopeless to expect any Christian results from the humane efforts of the Hudson's Bay Company and the missionaries. The most degrading superstitions prevail, cunning is employed where force cannot be used in plunder; lying is systematic; woman is treated as a slave; and the wild Indian is, in many respects, more savage than the animals around him.

that tenure

Christian Conduct and Beneficent Policy of the Hudson's Bay Company .- A careful examination of all available information, confirms me in believing, that the Hudson's Bay Company have well fulfilled the objects for which their charter was granted in 1670. Without any aid from the crown-without any drain upon the national exchequer-opposed by American, and even English rivalry—subject to plunder and devastation by the fleets and forces of the French and Russian govcrnments-struggling against an inclement climate, in a sterile soil-shut out from maritime communication with England, except for a few months in the year-and amidst hosts of wild, warlike, and treacherous savages, the Hudson's Bay Company have acquired and maintained for England. by a sagacious and prudent policy, by honourable, and, above all, by Christian conduct, exclusive dominion over that portion of the North American continent which hes between the Atlantic and Pacific Oceans, north of the 49th degree of latitude, extending over more than three million square miles - (3,060,000)

But for the Hudson's Bay Company, England would probably have been shut out from the Pacific, for, on the 5th of April, 1814, a convention was signed between the United States and Russia, (to which England was no party.) making the 54th parallel the boundary of their respective dominions. The settlements of the Hudson's Bay Company on the Columbia River and in the Oregon

region defeated this project

The American geographer and hibrarian to the United States' government, Mr Greenhow, who ably vindicates the rights and claims of his own country, who is by no means favourably disposed to any claims of England on the continent of America, and who, as an American, is little inclined to approve of the conduct of an association whose interests he naturally considers opposed to those of his own countrymen, thus candidly expresses his views in 1844, when referring to the disputed territory of the Oregon, Columbia River, Vancouver's Island, &c.:—

"The British Ministers could have no counsellors better qualified to advise, or whose interests were more completely identified with those of the government, than the Hudson's Bay Company, who, representing in all respects the interests of Great Britan in North-West America, has indeed become a powerful body. The field of its operation was more than doubled by its union with the north-west company, and by the heence to trade, in exclusion of all other

British subjects, in the countries west of the Rocky Mountains, where the fur-bearing animals are more abundant than in any other part of the world; while the extension of the jurisdiction of the Canada courts over the whole division of the continent, to which its over the whole division of the continent, to which its over the whole division of the continent, to which its law to the area apply, and the appointment of its own agents as magistrates in those regions, gave all that could have been desired for the enforcement of its regulations. The arrangement made with the Russian-American Company, through the intervention of the two governments, secured to the Hudson's Bay Company the most advantageous limits in the northwest; and the position assumed by Great Britain, in the discussions with the United States respecting Oregon, were calculated to increase the confidence of the body in the strength of its tenure of that country, and to encourage greater efforts on its part to assure

"The licence granted to the Hudson's Bay Company in 1821, expired in 1842, but another had been previously conceded, also for twenty-one years, containing some new and important provisions Thus, the company was bound, under heavy penalties, to enforce the due execution of all criminal processes by the officers and other persons, legally empowered in all its territories, and to make and submit to the government such rules and regulations for the management of the trade with the Indians as should be effectual to prevent the sale and distribution of spirituous liquors among them, and to promote their moral and religious improvement It is, moreover. declared in the grant, that nothing therein contained should authorise the company to claim the right of trade in any part of America, to the prejudice or exclusion of the people of 'any foreign states,' who may be entitled to trade there, in virtue of conventions between such states and Great Britain; and the government reserves to itself the right to establish within the territories included in the grant any colony or province, to annex any part of those territories to any existing colony or province, and to apply to such portion any form of civil government which might be deemed proper Whether this last provision was introduced with some special and immediate object, or with a view to future contingencies, no means have as yet been afforded for determining It is, however, certain that the British government insisted strongly on retaining the above-named privileges, and it is most probable, the Red River* and the Columbia countries were in view at that time as the remainder of the territory, included in the grant and not possessed by the company in virtue of the charter of 1669, is of little value in any way In addition to the assistance and protection thus received from the British government, the constitution of the Hudson's Bay Company is such as to secure the utmost degree of knowledge and prudence in its councils, and of readiness and exactness in the execution of its orders Its affairs are superintended by a governor, a deputy governor, and a committee of directors established at London, by whom all general orders and regulations are devised and issued, and all reports and accounts are examined and controlled. The proceedings of this body are enveloped in profound secrecy, and the communications made to the government in writing, which are likely to be published, are expressed in terms of studied caution, and afford only the details absolutely required.

• Mr. Greenhow is wrong so far as the Red River territory is concerned, as that region is not included in the exclusive licence of trade in 1838.—[R. M. M.]

resident governor, who occasionally visits and inspects all the principal posts;—under him, as officers, are chief factors, chief traders, and clerks, for the most part natives of North Britain, and an army of regular servants, employed as hunters, traders, voyageurs, &c., nearly all of them Canadians, or half-breeds. The number of all these persons is small, when compared with the duties they have to perform; but the manner in which they are admitted into the service, and the training to which they are subjected, are such as to render their efficiency and their devotion to the general interests as great as possible The strictest discipline, regularity, and economy, are enforced in every part of the company's territories; and the magistrates appointed under the Act of Parliament for the preservation of tranquillity, are seldom called to exercise their functions, except in

the settlement of trifling disputes.
"In the treatment of the aborigines of the countries under its control, the Hudson's Bay Company appears to have admirably reconciled policy with humanity. The prohibition to supply those people humanity. with ardent spirits, appears to be rigidly enforced Schools for the instruction of the native children are established at all the principal trading posts, each of which also contains an hospital for sick Indians, and offers employment for those who are disposed to work, whilst hunting cannot be carried on. Missionaries of various sects are encouraged to endeavour to convert them to christianity, and to induce them to adopt the usages of civilized life, so far as may be consistent with the nature of the labours required for their support, and attempts are made, at great expense, to collect the Indians in villages, on tracts where the climate and soil are most favourable for agriculture Particular care is extended to the education of the half-breed children, the offspring of the marriage or concubinage of the traders with the Indian women, who are retained and bred as far as possible among the white people, and are employed, whenever they are found capable, in the service of the company there are few or no white women in those territories, except in the Red River settlements, it may be readily seen that the half-breeds must in a short time form a large and important portion of the native

"The conduct of the Hudson's Bay Company in these respects is certainly worthy of commendation It is, however, to be observed, that of the whole territory placed under the authority of that body, only a few small portions are capable of being rendered productive by agriculture. From the remainder nothing of value can be obtained, excepting furs, and those articles can be procured in greater quantities, and at less cost, by the labour of the Indians, than by

any other means.
"The course observed by the Hudson's Bay Company towards American citizens in the territory west of the Rocky Mountains, has been equally unexcep-All the missionaries tionable and yet equally politic All the missionaries and emigrants from the United States, and, indeed, all strangers from whatever countries they might come, were received at the establishments of the company on the Columbia with the utmost kindness and hospitality, and they were aided in the prosecution of their objects, so far and so long as those objects were not commercial. But no sooner did any one, unconnected with the company, attempt to hunt, or to trap, or to trade with the natives, than all the force of the body was immediately directed towards him. There

"The trade in America is especially directed by a is no evidence, or well-founded suspicion, that the Hudson's Bay agents have ever resorted, directly or indirectly, to violence, in order to defeat the efforts of such rivals. And, indeed, those means would have been superfluous, whilst the company enjoys such great advantages in its organization, its wealth, and the minute knowledge of the country, and influence over the natives, possessed by its agents Wherever an American trading post has been established, or an American party has been engaged in trade on the Columbia, there appeared a Hudson's Bay agent at the head of a number of hunters, or with a large stock of merchandise, or a lage amount of specie in hand, which were offered for skins on terms much more favourable to the Indians than those possessed by the citizens of the United States; and the latter, in consequence, finding their labours vain, were soon obliged to retire from the field. Even without employing such extraordinary and expensive means, the British traders, receiving their goods in the Columbia by sea from London, free from duty, can always undersell the Americans, who must transport their merchandise 2,000 miles over and from the frontiers of the United States, where the articles best adapted for the trade have previously been subjected to an import duty In pursuance of the same system, the company endeavours, and generally with success, to prevent the vessels of the United States from obtaining cargoes on the north-west coasts of America, though the mariners of all nations, when thrown upon the coasts by shipwreck, or by other misfortunes, have uniformly received shelter and protection at its posts and factories"—History of Oregon and California, published by Murray, London 1844

The grounds on which the exclusive licence of trade was granted in 1838, are stated by the Board of Trade (letter, 2nd June, 1837,) to be on account of the liberal and enlightened policy which has generally distinguished the Hudson's Bay Company; and the "pecuhar nature of the fur trade seems to justify, and even to recommend, the adoption of the principle of conferring exclusive privileges upon a great body engaged in it, however objectionable such a principle appears with reference to commercial affairs generally."

The Bishop of Montreal, on his visit to the Red River settlement in 1844, says, that the arrangements for his doing so were all made for him "in the most excellent manner, and with the most careful attention, by direction of Sir G. Simpson, the governor of the Hudson's Bay territories." The bishop speaks of "the kindness and attention which he everywhere experienced at the hands of the Hudson's Bay Company's servants." At page 166 of his journal, he says, "It is the rule of the company's posts that the factor or trader in charge, where there is no clergyman, should read the church service on Sundays to the persons who can be gathered to hear it. The company have forwarded the erection of churches at Red River." And at page 164, his lordship remarks-" If I may judge from the kindness shown personally to myself, the facilities given to my operations, and the respect paid to my office by all the gentlemen representing the company's interest with whom I had to do, that body must be presumed well affected to the cause; and that its several proceedings are conducted on a liberal scale, I have some occasion to notice." The late Mr. Leith, who was a resident factor of the company, bequeathed £10,000 toward the propagation of the gospel in the scene of his former pursuits.

A branch of the Church Missionary Society was established at Red River settlement in 1822, under the Rev. Mr. West, who was appointed chaplain to the company. In 1824, the Rev. Mr. Jones was appointed chaplain to the company, and the Bishop of Montreal says, "he met with much countenance and support from the authorities of the Hudson's Bay Company," who, in 1834, "gave a munificent grant towards the construction of another Protestant church." The building was opened for divine service on the 26th of November, 1834. capable of accommodating, comfortably, 700 people, and 1,000 might find room without being overcrowded. Five day-schools, containing about 400 children, had been established; besides 2 seminaries, affording board, lodging, and education to 25 young ladies, and 30 young gentlemen, children of the gentlemen engaged in the service of the Hudson's Bay Company. At the different Sunday-schools, also, nearly 300 received The orderly demeanreligious instruction. our, moral conduct, and religious habits of all classes, were satisfactory and cheering.

Commodore Wilkes, speaking of Fort Vancouver, on the Columbia river, says-

"There are extensive kitchens and apartments for the half-breed and Indian children that the company have taken to bring up and educate. Of these, there are now 23 boys and 15 girls, who claim the parti-cular attention of Dr. M'Laughlin and Mrs Douglas. A teacher is employed for the boys, who superintends them not only in school, but in the field and garden During my stay, an examination took place, and although the pupils did not prove very expert at their reading and writing, yet we had sufficient evi-dence that they had made some improvement, and were in a fair way to acquire the rudiments. Some allowance was to be made for the boys, who had been constantly in the field under their teacher for a few months past. Dr M Laughlin estimated the labour of four of these small boys as equal to that of a man. It was an interesting sight, to see these poor little cast-away fellows, of all shades of colour, from the pure Indian to that of the white, thus snatched away from the vices and idleness of the savage. They all speak both English and French; they are also instructed in religious exercises, in which I thought

they appeared more proficient than in their other studies. These they are instructed in on Sunday, on which day they attend divine worship twice. They which day they attend divine worship twice. They were a ruddy set of boys, and when at work had a busy appearance: they had planted and raised 600 bushels of potatoes, and, from what Dr. M'Laughlin said to me, fully maintain themselves. The girls are equally well cared for, and taught by a female, with whom they live and work."

The commodore bears "testimony that the officers of the company are exerting themselves to check vice, and encourage morality and religion, in a very marked manner." He adds. "I saw no instance in which vice was tolerated in any degree. have, indeed, reason to believe, from the discipline and the example of the superiors, that the whole establishment is a pattern of good order and correct deportment. This remark not only extends to this establishment, but as far as our opportunities went, (and all but two of the posts were visited,) the same good order prevails throughout the country. Wherever the operations of the company extend, they have opened the way to future emigration, provided the means necessary for the success of emigrants, and rendered its peaceful occupation an easy and cheap task."

Lieutenant-colonel Crofton, who recently commanded a detachment of Her Majesty's troops in the Hudson's Bay territories, and was appointed a commissioner of inquiry into the truth of allegations made against the company, thus reports in a letter to the Secretary of State, on 12th February, 1848. "I unhesitatingly assert, that the government of the Hudson's Bay Company is mild and protective, and admirably adapted, in my opinion, for the state of society existing in Prince Rupert's Land, where Indians, half-breeds, and Europeans are happily governed, and hive protected by laws which I know were mercifully and impartially administered by Mr. Thom, the recorder, and by the magistrates of the land."

The present governor-general of Canada, the Earl of Elgin, one of the most upright and able servants of the crown, and whose judgment is of the highest order, thus expresses himself in a reply to the inquiries of the Secretary of State for the colonies:-"I am bound to state that the result of the inquiries I have made is highly favourable to the company, and has left on my mind the impression, that the authority which they exercise over the vast and inhospitable region subject to their jurisdiction is, on the whole, very advantageous to the Indians."

BOOK VII.—VANCOUVER'S ISLAND.

POSITION, EXTENT, ASPECT, GOVERNMENT, &c.

of America, between 48° 17' and 50° 55' age in the neighbourhood, which may be N. lat., and 123° 10' and 123° 30' W. long., approached by way of Cape Scott, thus and is in length about 290 miles, with an avoiding the difficult and dangerous naviaverage breadth of 55 miles. We know gation of Sir George Seymour's Narrows little of the interior of the country · it and Johnstone's Straits. is said to be intersected by high mountain ranges, with extensive prairies, a rich soil, amount probably to 10,000 in number. Capabundantly timbered with oak, pine, &c, tain Gordon says, "They are a fine race of and well watered, adapted for the cultivation men, and appear industrious and friendly, of wheat and other grain, with a fine climate, but are much addicted to thieving." When and many excellent harbours. The shores they ascertained that he wanted coal, they of the island are generally high, steep, rocky, entered into his views, became very active, and covered with wood. Fort Victoria, the and surprised him by procuring, with the chief establishment, in 48° 26' N. lat., and rude implements of hatchets and wedges, a 123° 9' W. long., is on the south shore, near large quantity of coal. the head of a narrow inlet, termed the Port

This fine island is situated on the W. coast the N.E. coast. There is excellent anchor-

The natives, or Indians, on the island,

Vancouver's Island has been granted, by of Camosack, or Cammusan, around which letters patent, dated 13th January, 1849, in there is a range of plans to an extent of free and common soccage, to the Hudson's nearly six square miles, containing valuable Bay Company, under certain conditions, one tillage and pasture land, and water power of which provides, that unless a settlement for flour or saw mills. The fort is a square of resident colonists, emigrants from the enclosure of 100 yards, surrounded by cedar United Kingdom, be established within five pickets, 20 feet in height, having octagonal years, the grant shall be revoked. The bastions, containing each six 6-pounder ports and harbours are free to all nations, guns at the N.E. and S.W. angles. The either trading or seeking shelter therein buildings are made of square timber, form- the fisheries around the island are open to ing three sides of an oblong. About three every freeholder. all minerals found belong miles distant, and nearly connected by a to the company, who have the right of small inlet, is the harbour of Esquimault, digging for the same, compensation being which is described to be capable of receiving made to the owner of the soil for any ships of the line, and of which a very favour- injury done to the surface; but the owners able opinion has been expressed by captain of land have the privilege of working, for George Thomas Gordon, R.N., who was their own benefit, any coal mine that may directed by admiral Seymour to examine be on his land, on payment of a royalty of the coal mines on Vancouver's Island. The 2s. 6d. per ton. The Hudson's Bay Comcoal is found in seams 10 to 18 inches thick, pany sell the land, in free and common some below high-water mark, others 60 feet soccage, in lots of not less than 20 acres, at above the sea; and Captain Gordon, by the £1 per acre. Purchasers of more than 20 aid of the natives, obtained 60 tons of coal, acres are bound to take out with them, to equal, if taken several feet from the surface, Vancouver's Island, 5 single men, or 8 marto the best Scotch coal, at an average cost ried couples for every 100 acres. The island of four shillings per ton. The coal yields is to be divided, where practicable, into coke in the proportion of 52 per cent. The districts of from 5 to 10 square miles. A extent of the coal-field inland is supposed to portion, equal to one eighth of the quantity be considerable; and it stretches over all of land sold, is to be set apart for the maintenance of ministers of religion. Thus, in a district of 10 square miles, containing 6,400 acres, supposing 5,120 acres sold, the minister would be entitled to 640 acres, the remaining 640 acres would be available for roads, site for church and churchvard, schools,

or other public purposes

With the view of enabling the ministers to bring their lands into cultivation, a free passage to be granted to such a number of persons as a settler having an equal quantity of land would be required to take out, the cost to be paid out of the fund held in trust for the benefit of the colony. The several apportionments for purposes of religion to be conveyed to, and to be held by, the governor and council, in trust for the parties appointed to perform the clerical duties of the respective districts.

The most material provisions for the government of the colony are as follows:-The governor is appointed by the crown, with a council of seven members, likewise so appointed. He is authorised to call assemblies, to be elected by the inhabitants holding 20 acres of freehold land. For this purpose, it is left to the discretion of the governor to fix the number of representatives, and to divide the island into electoral districts if he shall think such division necessary. The governor will have the usual powers of proroguing or dissolving such assembly. Laws will be passed by the governor, council, and assembly. The legislature, thus constituted, will have full power to impose taxes and to regulate the affairs of the island, and to modify

its institutions, subject to the usual control

of the crown.

The position, resources, and climate of Vancouver's Island eminently adapt it for being the Britain of the Northern Pacific; there is no port between the straits of Juan de Fuca and San Francisco · it is within a week's sail of California; within double that distance from the Sandwich Islands, with which a thriving trade has already been established; five days' voyage from Sitka or Russian Fur Company's settlements, where large supplies of provision are required; and it is within three weeks' steaming distance of Japan, with whose rich islands it is to be enabled to re-establish the friendly commer-

valuable agricultural settlement, but also a rich commercial entrepot for British trade and industry.

The formation of a canal and of a railroad across the Isthmus of Panama will materially facilitate the colonization of Vancouver's Island. Whether it be possible to establish regular and rapid communication, via Canada, with the coast of the Pacific, remains yet to be ascertained; but great credit is due to Major Robert Carmichael Smyth, for the talent, energy, and patriotism with which he has laboured to promote a "British colonial railway communication between the Atlantic and the Pacific." By whatever means Vancouver's Island be brought within half its present distance from England, great good cannot fail to accrue to the colony and to the parent state.

Steam communication between England and British America.—Mr. Samuel Cunard, of Halifax, Nova Scotia, having entered into a contract with the British government for the conveyance of the mails between Great Britain and North America, the British and North American Royal Mail Steampacket Company was originated, and an amended contract entered into with the government by Mr. Cunard, Mr. George Burns, of Glasgow, and Mr. David Mac Iver, of Liverpool, in 1839, to carry the mails twice a month, during eight months in summer, and once a month during four months in winter, between Liverpool and Halifax, in Nova Scotia, and Boston in the United States and Quebec, by a branch steamer on the St. Lawrence. Previously to the commencement of the service under this contract, in July, 1840, there were other steamers, viz.—the Sirius, Great Western, British Queen, President, Royal William. and Liverpool, some of which had crossed the Atlantic with more or less success, but only in the summer; and the capability of steamers to traverse the North Atlantic with regularity in winter, as well as summer, New Archangel, the head-quarters of the remained to be proved. Indeed, from the experience acquired by the voyages of the before-named vessels, it was generally held to be impracticable for steamers to navigate that ocean during the winter months, not in hoped the British government will soon be point of regularity alone, but of safety. The result of the winter passages of this comcial intercourse that existed at the beginning pany's vessels was highly satisfactory; and of the seventeenth century. This command- the government, with a view to the public ing position justifies the expectation that benefit, entered into an extension of the Vancouver's Island will become not only a contract, commencing 1st January, 1848,

with Messrs. Samuel Cunard, George Burns, taken on from thence to Boston and New and Charles Mac Iver (vice Mr. David Mac York. Iver, deceased,) for an increased service. A nately every second Saturday during the munication between the old and the new months of December, January, February, world; they have, in fact, bridged over the and March, and to the same ports alter- wide Atlantic; made the trackless and temof the past nine years has amply proved, to the promotion of friendly intercourse, of well as loss of lives annually. The contract the London and York mail coach did twenty price paid by the government for the present years ago) the maintenance of the North life to a single passenger. of 300 horse power, but they supplied ves-doubt not that the superiority will continue, contract they were bound to supply vessels port of Her Majesty's government. of 400 horse power, but they are now employing vessels of 700 horse power, and are of the new vessels will be about 2,000 tons

for which nine ocean steamers are kept.

It may here not be out of place to menannounced by the secretary of the United North American Royal Mail Steam Packet nists will possess through British territory. Company have originated a branch line of Steamers, to convey French goods from scarcely overrated, when viewed either as a Havre, to their steamers at Liverpool, to be high road to the mother country, or as con-

Great credit and liberal national suppor steam ship of the first class now sails from are due to the enterprising and successful Liverpool to Boston and New York alter- establishers of this important line of comnately on every Saturday during the other pestuous deep a safe highway the whole year eight months of the year. The experience through; and most materially contributed that with such steamers as are employed by social improvement, and of commercial and this company, and under proper manage- financial relations between Europe and ment, the North Atlantic Ocean may be America. To the British Colomes on, and navigated at all seasons of the year with adjacent to, the western continent, the adspeed, regularity, and safety Previous to vantages of weekly intercourse with the the commencement of the service by this parent and governing state are manifold, and company, the mails were carried between of incalculable value, but for the "Cunard" Falmouth and Halifax by gun brigs, which Line of steamers, (which arrive at their rescost the country a great deal of money, as pective stations with more regularity than tine of steamers has been met by the postages, American provinces as an integral part of and an immensely better mode of convey- the Britsh Empire, would have been a ance has been obtained, at a great saving of matter of great difficulty, and although the expense to the country, and without loss of United States government is now endea-The contractors vouring to establish a distinct line of mail were only originally bound to furnish vessels steamers from New York to Bremen, I sels of 1,200 tons burthen, and upwards of as heretofore, with the British line, and that 400 horse power. On the extension of their it will deserve the cordial and effective sup-

Connected with an efficient transatlantic building still larger ones to be propelled by communication is the establishment of a engines of 800 horse power. The burthen railroad on the scaboard of British America. which shall connect the whole of the North The contract payment for the first service American provinces, and form a continuous described above, was £90,000 until the steam transit from the sea-coast to Lake Quebec branch was dropt, when it was re- Huron, one line has been projected from duced to £85,000. The present payment for Halifax, via New Brunswick to Quebec, to the extended service is £145,000 per annum, which I have referred in the details of Nova Scotia, another line is now actually in progress, termed the St. Andrew's and Quebec tion, that in consequence of the repeal of Railroad, and is an undertaking carried on the British Navigation laws, it has been under the auspices of the Earl Fitzwilliam, Lord Ashburton, and other gentlemen in States Treasury, that from and after the 1st England, combined with the principal merof January, 1850, British ships and their chants and inhabitants resident at St Ancargoes will be admitted into the ports of drew's and other points through which the the United States, on the same terms as to line proceeds. The line will afford, at all seaduties, imports, and charges, as vessels of sons of the year, a direct and uninterrupted the United States and their cargoes. In communication between the Canadas and consequence of this change, the British and Atlantic, and will be the only one the colo-

Its political importance can therefore be

enecting the different provinces in a common be eagerly sought after, and at once combond of communication; and, in a mercantile point of view, it cannot be considered otherwise than as one of the best investments of the day, having been stamped with the patronage and approval of the late Lord Ashburton, even before the company received their recent magnificent grant of land: Lord Ashburton's acquaintance with the country, from his settlement of the boundary dispute, renders his testimony of great value. The grant consists of all the unallotted lands comprised within a belt of five miles on each side of the railway, and, by a certificate from the surveyorgeneral, contains upwards of 200,000 acres of some of the best land in the province, which, in consequence, doubles, or even quadruples the profitable character of the undertaking.

The company is incorporated by several acts of the local legislature, confirmed by the queen in council, and in addition to the above grant of land, has obtained privileges and advantages which cannot be claimed by any similar body, viz., 6 per cent. on the English capital guaranteed by the legislature for 25 years, which is chargeable on the revenues of the province. The Company have the power to make branch lines or extensions to, or in any part of the colony without applying for fresh legislative acts, and with the same facilities as to land and the free use of crown materials as on the trunk hne.

It is officially stated to me that the capital of the Association is divided into 8,000 shares of £20 each: half of which, termed class "A" are to be allotted in England, and the remainder, called class "B" reserved for allocation in New Brunswick; the majority of these shares are already appropriated, and the works are proceeding with vigour, and it is confidently hoped that the first section to Woodstock, (80 miles) will be open in two years. Offices for the payment of dividends and the transaction of such business as must be conducted in England, are established at No. 10, Parliament Street, Westminster; and the interests of the English stockholders are guarded by a board of directors, resident in this country, whose sanction is necessary to all measures proposed by the local directors in New Brunswick. The land helonging to the company, which has hitherto been of

mand a considerably enhanced price, which will far more than bring back their whole capital to the shareholders; as, for instance, there are 8,000 shares of £20 each, and if the 200,000 acres are divided amongst those 8,000 shares, it will give 25 acres per share, which, taken at the low figure of £1 per acre, gives £25 per share, or £5 per share more than the actual capital subscribed; and although the land will be disposed of, and thus return their capital to the shareholders. yet still the line will remain their property, and, from the provincial guarantee of interest, retain a comparative high value in the market.

This is a strong inducement offered to the English capitalist, the use of whose money will only in the first instance be required, but to the homeless wanderer from the British shores, its benefits will prove incomparably greater, as employment will be afforded him on the railway until he has had time to clear his land and become acquainted with the requirements of his novel mode of life; and by this he will be spared that fearful season of suspense which now intervenes between the first clearing of the land and the period when it yields its return.

Some of the shareholders have agreed to give a tenth of their land for church, school, and hospital purposes. Thus will nuclei be formed, around which a population will collect in a healthy and legitimate manner, and blessings, both present and prospective, be secured to all future emigrants.

Table of the portions of time in which European intelligence, telegraph and mails, passengers and freight, by sea and railroad, may reach Montreal.

Admiral W. F. W. Owen.

For Montreal.	Intelligence by telegraph will be delayed by inter- vening time at sea	freight, by sea
Debarking at—	Hours.	Hours Sea Rail
Canseau or Whitehaven	0	0 + 25 = 25
Halifax, Nova Scotia	12	12 + 24 = 36
Portland, Maine .	48	48 + 0 = 57
Boston, Massachusetts .	52	56 + 11 = 63
New York	70	70 + 13 = 83

If space had permitted, a chapter would have been given on emigration to the British North American colonies; on the advantages they possess as integral portions of a vast empire; and on the general state of those provinces as fields for the reception of the accumulating labouring population of the comparatively trifling value, will, when the United Kingdom. This section must, howrailway passes through it, most probably ever, be reserved for the close of the work.



WILLIAM PITT.

Sirp Colonies & Commerce

AUSTRAL-ASIA

BOOK I.-AUSTRALIA, OR NEW HOLLAND.

CHAPTER I.

DISCOVERY, MARITIME SURVEYS, COAST LINE, INTERIOR EXPLORATION, WINDS, CLIMATE, AND GEOLOGY.

Australia, or New Holland (which contains the several colonies of New South Wales, Port Phillip or Victoria, South Australia, and Western Australia, or Swan River), Van Diemen's island, New Zealand, the Chatham, Auckland, and other lesser islands—the whole comprising a territorial area in the Southern hemisphere nearly as large as Europe.

These extensive regions form an important and most interesting portion of our Colonial Empire, whether viewed in relation to their origin or progress, to their existing or pros-

pective state.

In a favourable position, situated midway between America and Africa, and at the extremity of Asia, they are valuable in a political sense for the increasing capabilities they afford towards the maintenance of British power in the East-and in a commercial sense from their contiguity to the richest and most densely peopled portion of the globe possessing in themselves (apart from these considerations) a fertile soil and a salubrious clime, they are well adapted for the dwelling of millions of the Anglo-Saxon race,—and even in this early stage of their existence, with many of their resources yet undeveloped, they are outlying farms, already instrumental in supplying England with augmenting quantities of grain, meat, wool, tallow, flax, timber, and other raw products. in exchange for her manufactures.

The insulated continent of Australia, remarkable for its great extent, singular conformation, and recent discovery, first claims mere coast line of this "great south land" was an unsolved geographical problem, as its covered and their iniquity remembered no interior is at the present moment; in the more."

THE British possessions in Austral-Asia are eyes of the learned its very existence was a phenomenon, and some idea may be formed of the strange surmises entertained on the subject, from the wild hypothesis of Blumenbach, that Australia must originally have been a comet or planetary body, which being drawn within the sphere of attraction, fell upon this globe Even those skilful navigators, and scientific explorers, who have surveyed its coast-line, and, to a limited extent, penetrated the interior, appear unable to arrive at any satisfactory conclusion concerning the operating cause, or the probable epoch of the formation of this vast countrywhether it has been in a comparatively modern age left dry by the receding waters of the ocean, or extruded from the bowels of the earth by subterranean fires.

> But the interest excited by this question throughout Europe, or by the singular animal and vegetable products of a land of contrarieties, merges into insignificance compared with that created by the extraordinary progress of British colonization at a distance of 15,000 miles from the parent state. earliest settlement is within the recollection of the present generation. Conceived in benevolent spirit, it was commenced in 1787 by the despatch to Botany Bay of a fleet laden with the refuse of our gaols and peni-For several years the convicts tentiaries were repeatedly on the eve of perishing by famine, but stimulated by the hope of regaining their forfeited freedom, directed by the intelligence of their superintendents, and governed by a systematic and humane policy, these outcasts hewed down the forests, sub-Less than a century ago the dued the stubborn soil, and earned for themselves a home where "their sins were

> > 3 A

the way, and smoothed the difficulties for their fellow-countrymen whom no crime had expatrated, but who sought at the antipodes the means of obtaining an honourable livelihood under the protection of the flag of their country, in the full enjoyment of the language, laws, and customs of their fatherland. The result of their joint labours is now manifest in the prosperous colony of New South Wales—the proudest monument of British civilization in the nineteenth century.

This success encouraged the settlement at Hobart Town, Van Diemen's Island, in 1801-2; at Swan River, Western Austraha, in 1829–30, of Adelaide, South Austraha, in 1835-6; of Melbourne, Port Philip, in 1836; and of Auckland and Welling-

ton, New Zealand, in 1840.

The progress of these Austral-Asian settlements is without a parallel in history, and their condition demands minute and impartial investigation on behalf of the owners of property in those colonies, and of the yet more numerous class of intending emigrants to whom every detail must be important, as a means of enabling them to decide on the locality best calculated to suit their peculiar circumstances.

Having no theory to uphold—no private views to promote-no particular colony to serve, I shall endeavour in this, as in other portions of my work, to lay before the public the fullest amount of information contained in the official documents to which her Majesty's government has granted me access, and, guided by the knowledge personally acquired in Australia, collate from the varied, heterogeneous, and scattered materials furnished by the most trustworthy authorities, every useful or interesting fact which may contribute to the general good, and illustrate the power and resources of the British empire.

Australia, or New Holland, the largest island in the world, lies between the parallels of 10° 45′ and 38° 45′ S., and the meridians of 112° 20' and 153° 30' E. of Greenwich. It is separated on the north from the islands of New Guinea and the Moluccas by Torres very early period to the thirteenth century, Strait, and from Timor and other islands in they were a thriving and enterprising people, the Eastern Archipelago by the Arafura engaged in an extensive maritime trade. sea; on the south, from Van Diemen's M. de Guignes says, "Nous trouvons dans Island, or Tasmania, by Bass' Strait: its les annales Chinoises des VII. et VIII. eastern and southern shores are washed by siècles, une route par mèr depuis la Chine the Pacific, its western and north-western jusqu'a l'embouchure de l'Euphrate." The by the Indian Ocean. The latitudinal dif- Arabian traveller, Ebn Wuahab, (A.D. 877,)

These pioneers in the wilderness prepared ference between Cape York and Wilson's Promontory, the northern and southern extremities, is twenty-eight degrees, equal to 1,680 geographical miles; the greatest distance from east to west is 2,227 geographical miles. The area is estimated at 2,690,810 square miles, and the coast line at nearly 8,000 nautical miles.

The distances and bearings of the several points around the coast are stated to be as follows: -

	Miles
Wilson's Promontory to Cape Howe, NE.	250
Cape Howe to Breaksea Spit, N a little E	950
Breaksea Spit to Cape York, N W	1,150
Cape York to Cape Van Diemen, W	900
Cape Van Diemen to North-West Cape, S W.	1,300
North-West Cape to Cape Leeuwin, S .	900
Cape Leeuwin to Great Australian Bight, E	1,200
Great Australian Bight to Wilson's Promon-	1 100

tory, SE Circumference in round numbers

The proportion which Australia bears to the other divisions of the globe has been thus calculated by the distinguished French navigator, Du Freycinet:-

French Leagues	Proportion
2,200,000 2,100,000 1,560,000 501,875	17 17 12 4 3
	2,200,000 2,100,000 1,560,000

Viewing Van Diemen's Island as a portion or prolongation of Australia, we may consider it as forming one of the marked tripodal capes or promontories which stretch from Asia, Africa, and America, towards the Antarctic Circle.

Discovery.—To what European or Asiatic nation the existence of Australia was first known, and when or by whom it was discovered, is a matter of great uncertainty, from the vague and often inconsistent statements by which the claims of various navigators are supported Although we have no positive evidence, there appears much probability that the Chinese were aware of the existence of "a great south land." Abundant records remain to prove, that from a points out the route pursued at that time, in of Australia, but Madagascar that Gonnethe voyage from Bussora to Canton; and ville discovered, and from whence he brought Edrisi, writing in 1156, states, that Muscat, a native, called Prince Escomerie, to Noron the coast of Arabia, was annually fre- mandy. The discovery of a maritime route quented by ships from China. They had to the East Indies, via the Cape of Good also, together with the Hindoos, constant commercial intercourse with Java and the Eastern Archipelago. It may, moreover, be worth noting in this place, that the nutritious trepang, or sea-slug, (bêche de mer,) which has for ages been a favourite luxury with the Chinese, is found in great abundance on the northern shores of New Holland, which are, even to the present time, annually frequented by a fleet of fishing prows, from being the chief source from whence this singular edible is obtained. Ιt may be urged, that this fact renders it the more unlikely that the Chinese were acquainted with the island, since, as a fishingstation of any value, clear records concerning it would be extant, but, on the other hand, we must not only remember the very slight knowledge we possess of the annals and charts of the Chinese, but also the serious injury, and indeed the almost total destruction of their maritime traffic by the piratical depredations of the Portuguese, Spaniards, and Dutch, who, in many instances, buried in oblivion important geographical information from the most selfish motives On the island of Timor, distant only 250 miles from the coast of Australia, there are many Chinese, but how long they have been estabhshed there we have no means of ascertaining.

Among European nations, the earliest claim to the discovery of Terra Austral is made by the French, whose pretensions rest upon the assertion of de Brosses and the Abbé Prevost, that Paulmier de Gonneville, a French captain, who sailed from Honfleur in 1503, lost his reckoning, and was drifted into an unknown sea, from which he escaped by observing the flights of birds towards the south, and following them Gonneville made the land, on which he lived for six months refitting his vessel, and living on friendly terms with the natives, whom he represents as having made some advances in civilization These could not have been the Australian savages; they may have been the people of New Zealand or of Madagascar. The dis tinguished hydrographer, Flinders, one of the best authorities on the subject, con siders this claim unfounded, and adds, that the proofs adduced in its support them selves demonstrate, that it was not any part

Hope, by Vasco de Gama, under the flag of Portugal, in 1498, and of a passage to Asia. through the straits which separate Cape Horn from Patagonia, by Magellan, or Magalhaens, under the flag of Spain, 27th November, 1520, led to an extended acquaintance with the Eastern seas, and as it s certain that, during the earlier half of the sixteenth century, the Spanish and Portuguese navigators pushed their researches into the South Pacific, it is probable that the claim made by them to the discovery of at least the northern coast of Australia, is not wholly unfounded, though, if made, it was unattended by any practical result.

In 1526, Don Jorge de Menezes, who was appointed to the government of the Moluccas. sailed from Malacca, and spent some months in a port supposed to be in Papua or New Guinea. In the same year, Alvarez de Saavedra sailed from a port in Mexico in search of gold, and discovered Papua, and

some of the adjacent islands.

In 1543, Ruy Lopez de Villabolos ranged

the New Gumea and other coasts.

In 1567, Alonzo de Mendana sailed from Lima, and discovered the thirty-three islands. which he named Solomon's Islands, "to the end that the Spaniards, supposing them to be those islands from which Solomon fetched gold to adorn the temple, might be the more desirous to go and inhabit them." his second voyage he could not find the islands: he died seeking them, and was succeeded by Quiros, who abandoned the search when only forty leagues distant from them.

In the British Museum there is a manuscript book of charts, entitled an Hydrographic, compiled by John Rotz in 1542, and dedicated by him to Henry VIII. of Eng-In one of them is rudely delineated an ill-defined land, situated to the south of Java, and termed Jave le Grand, but the chart terminates abruptly, only a portion of the north and north-west coast of this territory being laid down. There is also a large manuscript chart on the Mercator plan in the Museum, numbered in the catalogue 5,413, prepared for the dauphin of France. which Mr. Holmes, who has charge of the chart department, and has paid much attention to the subject, supposes to have been

constructed about the year 1536. In this degree of latitude; the people black, corpuchart the coast line of the African and American continents, south of the equator, is traced with some degree of accuracy. This document likewise contains part of a country inscribed Jave le Grand, on whose shores are depicted men and huts, and immediately adjacent to Cape Horn, to the southward, is what appears to be part of a continent, on which is marked La Terre Australie; this would lead us to suppose that the hydrographer, whoever he may have been, was impressed with the belief, which then and long afterwards prevailed, of the existence of a great continent, running north and south from 33° to 64° S. lat., its northern coasts stretching along the South Pacific to an immense distance, and extending at least from the straits of Magellan to New Zealand. Leaving the region of conjecture, we know for a certainty that on the 21st December, 1605, Fernandez de Quiros sailed with three vessels from Callao, in Peru, one of the objects of his expedition being to search for the Terra Austral, a continent supposed to occupy a considerable portion of that part of the southern hemisphere lying westward of America. Quiros, after discovering several islands, came to a land which he named Australia del Espiritu Santo, supposing it to be a part of the great southern continent. Luis Vaes de Torres, separated from Quiros, coasted along the Louisiade Archipelago. sighted the hills and islands of Cape York in 11° S., and spent two months in surveying the intricate navigation of the strait by which the Terra Austral is divided from New Guinea. We know, however, little of his proceedings, or of those of Quiros, as the accounts were transmitted direct to the king of Spain, who kept them from the public, and the existence of the dangerous channel, now called Torres Strait, was generally unknown, until rediscovered and passed by captain Cook in 1770. Fortunately for his reputation in after ages, a copy of a letter of Torres to the king of Spain, dated Manilla, 7th July, 1607, was deposited in the archives of the Spanish settlement at Manılla, where it was found by Mr. Dalrymple (himself an hydrographer), after its capture by the British troops in 1762. The Englishman, with true generosity, gave the name of the enterprising Spaniard to the strait he had discovered.

number; the bank shoaler in the eleventh covery was the roadstead, called by his

lent, naked, armed with lances, arrows, and clubs of stone." This description of the people refers to New Guinea rather than Australia, from the mention made of arrows. Torres adds. "we caught in all this land twenty persons of different nations;" from which it would appear that Torres adopted the policy of Columbus, Cabot, and other early navigators, in seizing on the natives of new found countries, to testify to their respective governments the reality of their voyages.

On the 11th of November, 1605 (the same year in which Quiros and Torres sailed from Peru) the Dutch yacht, named Duyfhen, was dispatched from Bantam, the chief seat of government in the Eastern Archipelago, to explore the islands of New Guinea.

The Duufhen sailed along what was thought to be the west shore of that country, to 13°45' S. lat, but which was in reality the north shore of Terra Austral, and then, being in want of provisions, proceeded to Banda, where she arrived in June, 1606, having unconsciously visited the "Great South Land." of which, in 1623, the yachts, Pera and Arnhem were sent in search from Ambovna. Jans Carstens, the commander of the expedition, with eight of his crew, was murdered on the coast of New Gumea; but the survivors pursued their vovage, and discovered "the great island of Arnhem and the Spult, or Speilt." (What is meant by "the Spult" it is now difficult to understand, but in the old charts a river is marked by that name, which is probably here intended to signify The Arnhem then the land in its vicinity.) returned to Amboyna; the Pera proceeded along the coast to Cape Keer Weer, (Turnagain, supposed by some to be the west coast of New Guinea, by others to be the east coast of the Gulf of Carpentaria,) where the Duyfhen had previously been, and explored the coast as far as 17° S. lat. There is, however, much discrepancy in the accounts of this and other early voyages. In the years 1616, 1618, 1619, and 1622, the west coast was noted by several outwardbound vessels, among others by the Endraght; and in a manuscript chart, by Eesel Gerrits, dated 1627, the first discovery of it is attributed to Dirk Hartog, commander of the Endraght, bound to India (A.D. 1616), who saw the coast in 26° 30' S. lat., and sailed northward to 23°, giving the name Torres describes the strait as being of Landt de Endraght to the land thus filled by "an archipelago of islands without surveyed. An important part of this disname, at the entrance of a sound lying a land. It was called Nuyts' Land, from httle S. of 25°, afterwards named Shark's Pieter Nuyts, who is supposed to have comforming the roadstead, there was found, in traced it for 1,000 miles from Cape Leeuas it could be deciphered) is a translation: "Anno 1616, 25th October, arrived here the ship Endraght, of Amsterdam, first merchant, Gilles Miebais, of Luik, Dirk Hartog, of Amsterdam, captain. They sailed from hence for Bantam, the 27th do., A° 1616." The names of the under merchant and chief mate are illegible. In July, 1618, the Mauritius, another outward bound Dutch ship touched at Willem's River, near the North-West Cape, and a year after captain Edel, commanding a Dutch vessel, touched on the coast, and gave his own name to the land from 29° to 26° 30′ S. lat The great reef lying off this land, called Houtman's Abrolhos, was discovered at the same time.

The Leeuwin, also outward bound, fell in with the coast as far as 35°, and sailed along to the north, giving its name to the Cape,

in 34° 19′ S. lat., 115° 6′ E. long.*
In 1628, the *Vianen*, one of the seven ships which returned to Europe under the command of Carpenter, the Dutch governorgeneral, from whom the deep gulf on the north coast takes its name, reported having seen the shore, and the circumstance is thus stated in the Dutch records. "the coast was seen again accidentally, and coasted 200 miles without gaining any knowledge of this great country, only observing a foul and barren shore, green fields, and very wild, black, barbarous inhabitants." This part was subsequently called De Witt's Land, but by whom does not appear. In Thevenot's collection of charts, &c., there is an account of the shipwreck of Francisco Pelsart, in the Batavia, on the 4th June, 1629. on the Abrolhos. Pelsart proceeded along the north-west coast in a small decked boat, crossed thence to Batavia, and returned with succours for his men; too late, however, for they had been murdered by the savages.

The south coast was accidentally discovered in January, 1627, by the Dutch ship, Gulde Zeepaard, outward bound from Hol-

Bay, by Dampier. Upon one of the islands manded the Zeepaard, and is said to have 1697, and afterwards, in 1801, half buried win, and laid down a number of positions in the sand, with the rotten remnant of a with great accuracy. The Dutch governpost attached to it, a tin platter, bearing an ment being anxious to ascertain how far this inscription, of which the following (as nearly great south land extended towards the antartic circle, despatched Captain Abel Jans Tasman from Batavia, with two vessels, on the 14th August, 1642. Tasman, after touching at the Mauritius, steered south and east, and on the 24th November made some high land in 40° S. lat., 163° 50' E. of Teneriffe, which he named in honour of the governor-general, Antony Van Diemen's Land, and sailed along, not supposing it to be an island; he anchored in Storm Bay, then pursuing an east and south course, he discovered part of the west side of New Zealand, (of whose insularity he was also unaware, and considering it to be a part of Terra Australis, he named it Staten Land), the Friendly and Prince William Islands In 1644, Tasman was sent by the Dutch East India Company on a second voyage of discovery, and directed, after passing the land of Arnhem, to "follow the coast further as it may run westward or southward, endeavouring by all means to proceed, that we may be sure whether this land is divided from the Great Known South Land or not." From this expression, it is evident that the Dutch had acquired a knowledge of some part of the Terra Austral, to which they about this time gave the name of New Holland. Unfortunately no account of this voyage has ever been published, except that contained in a garbled extract from Tasman's journal by Dirk Rembrantz, and translated in 1776, but his track is supposed to be indicated by the names given to different places, namely those of Van Diemen (as in a former instance), two of the council who signed his instructions, and of Maria, the daughter of the governor-general, to whom he was attached.

It is very probable that the Dutch East India Company did not consider that New Holland was in any way useful from its productions, and much feared the character of its inhabitants. Jans Carstens, who commanded the Pera and Arnhem in 1623, says, "in this discovery we found everywhere shallow water and barren coasts, islands altogether thinly peopled by divers crucl, poor, and brutal natives, and of very little use to the company."

Witsen, in his "Notes," alludes to Tasman's

[•] The above statements are derived chiefly from the instructions given to Tasman when sent from Batavia on his second voyage of discovery, and signed by the governor-general Antonio Van Diemen, and four members of the council of Batavia.

describing the people on different parts of fitted out a squadron for discovery, under the coast as "bad and wicked," "shooting arrows," "throwing stones," "living very poorly," "feeding upon roots;" "there are few vegetables, and the people use no

In 1663 Thevenot published his chart of the west coast of the "Great South Land."

In 1688 Dampier, the most observant navigator of his age, visited the west coast with the Buccaneers, and described it as low and sandy, with scarcely any vegetation on its shores. The Buccaneers careened and refitted in about 16° S. lat.

In 1699 Dampier was expressly sent as pilot in H.M.S. Roebuck, on a voyage of discovery, and visited the west and north-west

coasts.

In Dampier's New Voyage round the World published in 1703, a chart of the world therein engraved only shews part of the north-west and south coast of New Holland, which is joined on the east to some land stretching towards the equator, and joining the islands of the Eastern Archipelago The most southern part of New Holland marked, is in about 32° S. lat., and "Diemen's Land" is placed ten degrees further to the southward.

Dampier's track in 1699 was from Sumatra to the north-west coast of New Holland, whence he proceeded to Timor in September 1699; in the chart of his voyage, he lays down the coast as far north as the gulf of Carpentaria, traces part of the coast of New Guinea, but leaves an unexplored tract between that island and Australia, nearly in the position of Torres Straits; in fact direct north from the land we now call Cape York.

In recording his proceedings on the west coast, he states, "I spent about five weeks in ranging off and on the coast of New Holland, a length of about 300 leagues." He subsequently discovered New Britain.

1696.—William de Vlaming was sent in search of a Dutch ship, lost in 1684-5, he visited the west coast, found black swans near Rottenest Island, and named the place Swan River. He then sailed north as far as 21° 28'.

In 1710, captain Woodes Rogers was sent to the South Seas, with two vessels; Dampier was pilot; they sailed through what they termed New Guinea Straits.

1767.—Captain Carteret sailed through the strait which separates New Britain from

New Ireland.

captain Roggewein, who lost one of his ships on the east confines of Australia. Having landed in New Britain, he was attacked by the natives, and returned without accomplishing any satisfactory results.

The justly celebrated captain Cook, in his exploring and scientific expedition with H.M.S. Resolution and Adventure, on the 6th of October, 1769, discovered the east side of New Zealand; continued surveying the coast until the 81st of March, 1770, when he proceeded to New Holland, and, to use his own words, " surveyed the east coast of that vast country which had not before been visited, and passed between its northern extremity and New Guinea;" thus demonstrating beyond a doubt the insularity of New Holland.

The first port in Australia which captain Cook entered was Botany Bay, in April, 1770; thence he sailed to the northward, and passed Port Jackson, which, from its narrow entrance at the "heads," he supposed to be merely a boat harbour, and gave it the name of the sailor then on the lookout at the mast-head. At Cape Tribulation on the north-east coast of Australia, the ship of captain Cook struck on a coral reef; he refitted and repaired her in the adjacent Endeavour Bay, and then proceeded to solve the doubt of New Holland being separated from New Gumea and the adjacent lands.

Captain Marrion, a French officer, with two ships, skirted the coast in 1772, in search of the supposed southern continent, and proceeded to New Zealand, (which had been rediscovered by captain Cook,) where he was murdered by the natives in the Bay of Islands. In 1768 the French navigator, De Bouganville, visited the Australian coast. In 1791, the south coast was visited by captain George Vancouver, on his way to the north-west coast of America; he made the land on the 26th September, at Cape Chatham, in 35° 3' S. lat and 116° 35' E. long.; then sailed east along the coast till the 28th, when he anchored in a sound, which he named after George III. Bad weather prevented his doing more than verifying a part of the coast laid down in Nuyt's chart of 1627.

On the 9th March, 1773, captain Tobias Furneaux, second in command in the expedition under captain Cook, in H.M.S. Adventure, made the south-west cape of Van Diemen's Island, and steered east, close 1721.—The Dutch East India Company to the rocks called Maatsuyker's by Tasman,





CAPTAIN COOK

ов 1779

FROM 1115 ORIGINAL PICTURE BY DANCE
IN THE GALLERY OF GREENWICH HOSPITAL

 $_{\rm c}$) $_{\rm c}$, $_{\rm c}$

afterwards anchoring in what he took to be temps Beaupré, and his assistants, appear Storm Bay, (which he called Adventure to combine scientific accuracy and minute-Bay), so named by Tasman in 1642; not, ness of detail, with an uncommon degree of however, the Storm Bay laid down in the neatness in the execution. They contain present charts, but that now termed D'Entre- some of the finest specimens of marine surcasteaux's channel, which runs inland for veying perhaps ever made in a new country." ten leagues, and communicates with the true Storm Bay of Tasman. Captain Fur- gator, La Perouse, visited the east coast of neaux then sailed along the Van Diemen Australia with the French ships of war, La coast to the northward, to discover whether Boussole and L'Astrolable; these vessels it was separated from New Holland, or was were last seen by any Europeans in January. a peninsula forming part of the main land; 1788. When captain Philip, R.N., and the but he finally steered for New Zealand, fleet of convicts sent out to form the penal giving it as his opinion that "there was no settlement in New South Wales, were remostrait between Van Diemen's Land and New ving from Botany Bay to the more eligible Holland, but only a very deep bay." Cap- adjacent station of Port Jackson, La Perouse tain Cook, with H.M S. Resolution and Discovery made the south-west Cape, 24th Jan. tish and French commanders exchanged the 1777, and after steering eastward, anchored, as Furneaux had done, in Adventure Bay on La Perouse perished shortly after at the the 26th, but captain Cook proceeded on Mannicolo islands it is supposed that the his voyage, still ignorant of the insularity of vessels were lost on a coral reef. After a the land.

In 1792, Bruni D'Entrecasteaux, & French rear-admiral, with two ships of war, La French ships, and placed beyond a doubt Recherche and L'Espérance, made the coast the period and place of their loss. of Van Diemen's Land, to obtain supplies of wood and water; and while intending to settlement at Port Jackson (Sydney), in enter the Storm Bay of Tasman, entered the Adventure Bay of Furneaux, up which he sailed thirty miles, and found it to be separated by a small island from Storm Bay The island he named Bruny, and the channel little boat called Tom Thumb, eight feet long, D'Entrecasteaux, and then sailed to the aided only by a boy, commeuced a survey of eastward without ascertaining that Van Diemen's Land was insulated *

Captain Bligh, in 1788, in the Bounty, and in 1792 with the Providence and Assistant, and captain John Hayes, of the Bombay Marine, with the private ships Duke and Duchess from India, in 1794, visited different parts of the Australian coast, without adding much to our geographical knowledge.

The survey of admiral D'Entrecasteaux extended from Cape Leeuwin to 132° E. long. in Australia, and comprised the southern extremity of Van Diemen's island, including the river Derwent and the channel which bears the name of the accurate surveyor. Captain Flinders states that "the charts of the last survey, particularly those relating to the bays, ports, and arms of the sea of the south-east of Van Diemen's Land, and constructed in this expedition by M. Beau-

The able, but unfortunate French naviwas entering Botany Bay to refit. The Bricivilities common to their gallant profession lapse of forty years, captain Peter Dillon, in 1826, discovered relics belonging to the

After the formation of the British penal 1788, attention was directed to the eastern and southern shores of Australia, and Mr. Bass, surgeon of H.M.S. Reliance, and heutenant (afterwards captain) Flinders in athe coast Mr. Bass was afterwards reinforced with a whale boat, six men, and six weeks' provisions, in this open boat, and in boisterous weather, he explored the southeast coast for 600 miles, entered what Furneaux considered a "deep bay," and in 1798, became satisfied that there was a strait separating Van Diemen's Land from New Holland. On his return to Sydney, governor Hunter was induced to verify the results of Mr. Bass's observations by sending heutenant Flinders and Mr. Bass in the colonial schooner Norfolk, of twenty-five tons burthen; with this little vessel, they sailed through the strait now called Bass's Strait. and by circumnavigating Van Dieman's Land demonstrated for the first time its insularity, and completed the coast line of Australia. The result of these remarkable labours of Bass and Flinders, was a survey of the coast

years since Navigators should be cautious in approaching this part of the coast, as they are very hable to be deceived by the headlands.

^{*} The mistake of D'Entrecasteaux was then a very probable one, for notwithstanding our extended knowledge of the coast, a similar error was committed during the night by a vessel in which the author sailed some

line from Sydney to Western Port, of the Australian coast has now been chronologicoves of the river Derwent, and of Tasman's Sir John Franklin, recently Peninsula. heutenant-governor of Van Diemen's Island, whose presumed loss in the arctic regions the nation now mourns, began his noble career under Flinders. At his own cost, Sir John erected, in 1841, a lofty stone obelisk on Stamford hill, near Port Lincoln, South Australia, to commemorate the great services of "the illustrious navigator and his honoured commander." Flinders himself reand able colleague," surgeon Bass, who well deserves "an honourable place in the list of those whose ardour stands most conspicuous for useful knowledge." In December, 1800, captain Grant, in H.M. brig Lady Nelson, passed through Bass's Straits, and explored the coast from Port Western to 1401° of E In 1802, heutenant John Murray, who succeeded captain Grant in the command of the Lady Nelson, discovered Port Phillip ten weeks previous to the arrival of captain Flinders in that bay.

The survey of captain Baudin of the French navy in the Geographe, was contemporaneous with that of Flinders; it comprised the southern coast of Australia between 35° 40' and 37° 36' S. lat, and 138° 58' and 140° 10′ E. long., a coast line of about 150 miles in length, devoid of rivers or inlets, also the north-west coast, from Cape Leeuwin to Rottenest Island, Swan River, and thence partially to Cape Londonderry on the north

coast. In April, 1802, Baudin and Flinders met in the neighbourhood of Spencer's Gulf, and although their respective countries were engaged in fierce hostilities, the commanders met on board the Geographe, and communicated freely to each other all the information that was likely to be useful. The expedition of captain Flinders was thought to be secured against the chances of war by a passport granting it protection, assistance, and free ingress and egress to and from the ports of the French republic; but when Flinders, driven by stress of weather from the west coast of Australia, was obliged to seek shelter at the Isle of France, or Mauritius, then a French colony, he was most unjustly and cruelly detained a prisoner for eight years, by the governorgeneral De Caen, and his charts seized, despite passports and remonstrances.

islands in Bass's Strait, of the bays and cally detailed to the commencement of the present century. The subsequent voyages and discoveries of those skilful and enterprising British seamen, of Flinders (1801-2), King (1818-20), Wickham and Stokes (1837-43), of Blackwood (1842-46), of Stanley, Bremner, Chambers, Heywood, Hobson, and other naval officers, have furnished valuable nautical surveys of the coast line of this vast island, the whole of which now appertains to the British empire.

The surveys of Flinders include the corded a high eulogium on his "high-spirited south, west, and north-west coasts of Australia to the Gulf of Carpentaria, and high credit is due to this intrepid and persevering surveyor, captain P. P. King's invaluable labours include 2,700 miles of coast, principally on the north and east, and involved 40,000 miles of sailing The interesting examinations of captains Wickham and Stokes commenced on the east coast, and included the Gulf of Carpentaria, Torres Straits, the north and north-west coast, Dampier's Archipelago, Houtman's Abrolhos, the Swan River coast, Bass's Strait, and Adelaide, South Australia. Captain Blackwood's mentorious exertions were chiefly devoted to Torres Straits, the dangerous reefs and islands in that route, and the north-east coast of Australia.

Reserving for separate consideration the aspect of the several colonies in Australia-VIZ: New South Wales on the east coast: Port Phillip, or Victoria, on the south-east, adjacent to Van Diemen's Island: South Australia, on the south coast, westward of Port Philip; and Western Australia, or Swan River, on the western and south-western shores, a few general remarks on the physical features of Australia may be useful.

Physical Features .- The outline of Australia is singular. the parallelism of the coast lines gives a geometrical form to the island; the greatest width, from east to west, is in the parallel of 25°, the greatest length, from north to south, is from Cape York to Wilson's Promontory. Nearly in the same meridian, viewing Van Diemen's Island as a continuation of Australia, its projection on the south, in a direct line with the Carpentaria promontory on the The deepest indennorth, is remarkable. tations of the island are opposite each other on the north and south coasts. The east and west coasts have nearly the same general configuration; and at Sandy Cape, The gradual progress of discovery on the on the east coast, and to the northward of

the same parallel, on the west coast, at Bowen, Princess Charlotte Bay, and nuprojections of the land. The trend on the shore from west to north is parallel with that from south to east; the indentations between Coburg peninsula and Cape Londonderry on the north-west, nearly correspond with the expansions on the southeast; the trend of the coast from Kangaroo Island towards Fowler's Bay on the south. is parallel with that of the opposite coast line of the Gulf of Carpentaria. finally, the great Australian Bight on the south somewhat corresponds with the protrusion of Arnhem's land in Northern Australia. The peculiar external form of Australia may be, in some degree, owing to the different degrees of force to which the land is subjected by the surrounding waters. On the south, where the coast is not protected by Van Diemen's Island, the tremendous effect of the unbroken roll of the ocean from the pole is manifested in the deep Bight. On the north-west the full swell of the Indian Ocean produces a corresponding slope of the coast; on the north-east the Pacific flows with majestic sweep from the American continent, and on the north, the fluctuating pressure caused by the monsoons is broken by the islands of the Eastern Archipelago.

The coast-line of Australia is marked by deep gulfs, fine bays, and capacious havens On the north is the large gulf of Carpen-Port Essington, afford many secure ports Australia Bay, Spencer's (900 miles deep) and St. passing through them. Vincent's Gulfs, Encounter Bay, Portland Coast Rivers.—In vey Bay, Port Curtis, Keppel Bay, Port disemboguing into the Gulf of Carpentaria,

North-West Cape, there are two peculiar merous secure roadsteads situated on the north-east, between the Barrier reefs and the coast.

Australia, like the other continents, has an island of considerable magnitude attached to it, namely, that of Van Diemen, or Tasmania, which lies at its southern extremity. The other principal islands are Melville and Bathurst on the north, Kangaroo, near St. Vincent's Gulf, and Groote, in the Gulf of Carpentaria, Great Sandy Island on the east, and exactly opposite it, on the west coast, Dirk Hartog's Island. There are several smaller islets and groups, viz — Prince of Wales' Island, off Cape York, the Wellesley, Pellew, and others, in the Gulf of Carpentaria; Wessel, and English Company Isles, near Melville Bay; Buccaneer's Archipelago of islets, south-west of Cape Londonderry, Dampier's Archipelago, Barrow, and other islands north-east of the north-west cape, off De Witt's Land; Bernier and Dorre, off Shark's Bay, Rottenest, &c.; at Swan River, Recherche Archipelago, on the south coast, between King George's Sound and west of the great Australian Bight; Nuyts' Archipelago, Investigators' and Flinder's islands, west of Spencer's Gulf; King's, Furneaux, and others in Bass's Straits, between Australia and Van Diemen's Island. The south-east coast is deficient in islands, and has few indentations like the north or south coasts. From Wilson's promontory taria, with York Harbour or Endeavour to Moreton Bay there are no islands but Strat at the north-east limit, and Melville those of Stradbroke and Moreton, and the Bay at the north-west entrance; Van Die-Solitary Isles north of Port Macquarie men's Gulf, Cambridge Gulf, Admiralty Howe's and Ball's Pyramid Islands, east of Gulf, Brunswick Bay, Queen Charlotte's Port Macquarie, are 400 miles from the Channel, Melville Island, Raffles Bay, and shore, and do not partake of the features of They are very remarkable, and on the north and north-west shores. On rise in basaltic columns from the sea. Prothe west there are Prince Regent's inlet, ceeding to the northward, along the east Doubtful Bay, King's Sound, Buccaneer's, coast, we find Great Sandy Island, the Caprand Dampier's Archipelagos, Exmouth Gulf, corn group, (where the coral islets com-Shark's Bay, Freycinet Harbour, and Swan mence), including Bunker Islands, Keppel River. Port George the Fourth, Hanover Island, the Northumberland, Percy, Hills-Bay, and Camdens Sound, lying close to borough, Palm, Lowe, and other minor each other, are noble havens, and have a islands. The Capricorn group of islets, on fine tract of country in their rear. On the north-east coast, have the tropic of the south, King George's Sound, Fowler's Capricorn and the 152nd degree of E. long.

Coast Rivers .- In no other part of the Bay, Port Phillip, and Western Port. On globe could a similar extent of coast line be the east are Jervis Bay, Botany Bay, Port found with so few navigable rivers. The Jackson, or Sydney, Newcastle, Port Ste- Murray, in South Australia; the Hunter and phens, Port Macquarie, Moreton Bay, Her- Brisbane, in New South Wales; the Albert,

the Adelaide, into Van Diemen's Gulf: the Regent, Fitzroy, and Glenelg, on the northwest coast; and the Swan, in Western Australia, are the only streams navigable ocean, where their entrances are barred.

So far as the country is known one mountain range bounds the coast from Bass's Straits to York Peninsula, and is continued in what Leichardt calls a "collar" round the Gulf of Carpentaria; on the western shore ranges run parallel with the coast, and slope off towards the east and north. Probably the highest mountains will be found hump resembling a haycock. at the Australian Alps, in the south-east, and at Arnhem and Tasman land in the peaks with an elevation of about 2,000 feet. north-west. The dip of the high land on the east coast appears to be from south to north, viz, from Mount Kosciusko, 6,500 feet high in the Australian Alps, in 36° 20' S., to Mount Hinchinbrook, 3,500 feet, in 18° 22' S.; Cape Direction, 1,250 feet, in 13°S.; and Pudding Pan Hill, only 384 feet in 11° 19' S. From Fowler Bay, in the Australian Bight, westward to King George's Sound, there are low chiffs of a calcareous marine formation, or sandy dunes, with occasional points of granite; the general elevation being from 300 to 500 feet, without a single watercourse for 800 miles; and according to an intelligent writer in the Sydney Herald, the north-west coast between the parallels of 16° and 21° is composed of low sandy beaches, with no appearance of high land behind them. With these two exceptions the whole of Australia is surrounded by a mountain belt, from 2,000 to 6,000 feet in height, at a distance of 50 to 100 miles from the coast, with collateral spurs or but-From the outer and most precipitous side of this girdle short rivers flow to the sea coast; from the inner and less precipitous face, which in several places declines in successive terraces, different rivers flow, it is supposed, towards some great central basin, or are swallowed up in the burning sands, or evaporated by the intense heat of a tropical atmosphere, increased by the distance of the central parts of Australia from the sea, or possibly these inland streams may be absorbed by immense marshes. But all these suppositions would seem to indicate that the vast island is of recent date compared with other portions of our globe, and that the interior is still little better than a slightly elevated ocean bed, with a mountain crust around it.

Coast Line of Unsettled Parts of Aus-Victoria, into Cambridge Gulf; the Prince tralia.—The information obtainable on this head is fragmentary and imperfect, but I shall endeavour to frame a connected view, so far as is known, of the physical features. for ships for even a few miles from the commencing with Cape Capricorn, on the east coast, in 23° 30′ 30″ S. lat. The most remarkable features on the adjacent shore are-Round Hill, 2,000 feet; Mount Larcom, 1,800 feet; and Peaked Hill, which stand out in bold relief against the pure blue of an Australian sky; they are fronted with groups of coral islets connected with the Great Barrier Reef.* Cape Capricorn itself has a

> Southward of Port Bowen there are two which form the northern end of a high rocky range. The country surrounding Port Bowen is picturesque, many ranges of hills, both peaked and roundbacked, rise near the coast. and have an elevation in the interior of 2,000

to 3.000 feet.

In consequence of shoal bars there is not an easy entrance for large vessels much further than Entrance Island. The country, when visited in February, 1843, appeared dried up; not a drop of fresh water to be found anywhere. † But this may not always be the case. Dr. Leichardt, speaking of the country contiguous to the north-east coast in 1844, assigns reasons for supposing that part of Australia to have been exceedingly

dry for a series of years.

About West Hill and Broad Sound the coast of the main land is formed of a low sandy shore, with a flat country of five or six miles wide, backed by a bold range of lofty flat-topped hills, with here and there a conical peak. West Hill rises directly from the sea to the height of a thousand feet. The seaward cliff of West Hill, and, in the opinion of Mr. Jukes, the mass of the hill itself, is composed of very fine grained trap or basalt, with small crystals of feldspar only visible with a lens. The rock is split by innumerable joints and veins, crossing at all angles into masses of defferent shapes.

The Northumberland Islands have an elevation from 200 to 400 feet; in one instance of 720 feet. The crests of the western isles are covered with pine trees. The Percu Islands are also elevated, wooded, and composed of a trap-like compound with an aspect

of serpentine.

Stokes's Discoveries in H.M.S. Beagle, 1837—43. Jukes's Voyage of H.M.S. Fly, 1842—46.

land of red quartzose rock, and adjacent the north-west. there is a cove five or six miles deep by three wide. Near to the harbour are grassy slopes, open woodland, and hills with jungle and long level hill, peaked at its northern ex-

lofty trees.

The coast between Broad Sound, in 22° 15′ S. lat., and Whitsunday Passage, in 20° 20' S. lat., differs in some respects from any part of the coast seen by the officers of H.M.S. Fly. A solid range of uniform hills, at a distance of five to ten miles from the coast, bounds a fine undulating tract of country, well watered, covered with abundant close grass, timber of large size and various descriptions, and many small bays and inlets.

Cape Hillsborough is a bold headland, 900

feet high, and very steep all round.

Cumberland Island is a singular mass of rocks, and appears as if made up of angular fragments of compact feldspar cemented

together.

Whitsunday Passage, the shores rise in a steep slope, and in some of the places adjacent to the strait, have an elevation of several hundred feet, covered by magnificent forests, the greater part of which are of the pine species. This timber tree, which resembles the Norfolk Island pine, is found along the east coast from Port Bowen to Cape Melville, but Whitsunday Passage seems to be the favourite locality.

Mount Dryander, on the promontory which terminates Cape Gloucester, is more than 4,500 feet high. There are hills around to

the height of 700 to 1,000 feet.

Cape Upstart, so called by captain Cook, consists of a huge mass of granite, about 2,000 feet high, rising abruptly from the water on all sides, and connected with the mainland by a mangrove swamp. It has a singularly rugged and barren aspect, and appears like a vast mass of ruins,—its crests are covered by huge boulders, or blocks of twenty leagues. loose rock, with patches of scrubby vegetacreek winding round the southern foot of the high land, and connecting the bays on the east and west sides of Cape Upstart. Immense beds of mangrove stretch round the head of Upstart bay, and a wide flat runs for some miles beyond them into the country, over which are seen some bold hills, in separate groups, rising like islands out of the level land.

At Cape Palmerston there is a small head- pleasant grassy country, towards the hills in

Mount Elliott, lying about forty-five miles west and by north from Cape Upstart, is a

tremity.

Wickham River, north of Cape Upstart, 18 approached through heavy breakers, and the opening seen by H.M.S. Fly in 1844 was about three miles wide, and had a depth of three and a half fathoms, about 200 vards from the north shore, where the land was an open forest country, with green grass and scattered trees. The south shore seemed a great mangrove swamp, with a spit of sand running out to sea among the breakers At a distance of seven miles from the inside of the breakers, the reach of the river curved to the west, became shallower, leaving the steep cliff and forest land of the north or left bank, passing over flats of sand and pebbles; beyond this the boat could not proceed. From the top of the river cliffs, forest land At Port Molle, at the north-west end of was seen stretching into the interior, the trees close together, and the underwood thick.

> The land round Cape Bowling Green 18 scarcely above the level of the sea, and is probably the delta of a large river islands are lofty, wooded, and have a picturesque appearance, especially Magnetic Island, so named by Cook The mountain range seen from Cape Bowling Green is at

least thirty miles in the rear.

Cape Cleveland is, like Cape Upstart, abrupt and broken, but more woody, having fine pines in many of its gullies. At this point the cordillera of Eastern Australia tower to a considerable elevation close to the From Cape Grafton to Cape Tribucoast. lation precipitous hills, bordered by low land, form the coast line, the latter-named cape consists of a lofty group with several peaks, the highest of which, in the shape of a finger, is visible from the sea at a distance of

Gould Island Peak, in Rockingham Bay, The cape is insulated by a small is nearly 1,400 feet above the sea, about five miles to the south-west of it is Mount Hinchinbrook, 2,500 feet high. It is a broken mass of hills, covered with ragged knolls, and sharp inaccessible pinnacles, furrowed by deep and precipitous ravines. On the mainland is an unbroken range of high land, none of less than 2,000 feet elevation, stretching along the shore to the southward, and after sweeping round Rockingham bay Captain Blackwood, R.N., crossed a very it rises and spreads to the northward into still loftier and more broken mountainous elevations. The summit of this range, near Rockingham bay, is very level, but there are many projecting buttresses and ridges on its seaward slope, which is everywhere very steep, and apparently furrowed by many

gullies and water-courses.

Endeavour River, where captain Cook careened in 1770, after grinding the bottom of H.M.S. Resolution for twenty-three hours on Endeavour reef, has for its external aspect bare and rocky hills of moderate height, with their seaward slopes almost destitute of On the north shore is a line of vegetation. sand dunes beneath the higher hills; on the south shore is a hill of moderate elevation, tolerably clothed with small eucalypti, and sloping down to a grassy flat, fronted by a line of mangroves. Beyond these the land is low for some miles, and then backed by tabular flat-topped hills a few hundred feet high, and of a different aspect to those usually seen on the coast.

Cape Bedford is one of the most remarkable features on this coast, being a bluff detached piece of table land, surmounted by a singular low line of cliffs, which forcibly reminded captain Stokes of the lava-capped hills on the river Santa Cruz, in East Pata-

gonia.

Cape Flattery is a conspicuous headland, consisting of two peaks, with a slope between

them.

Lizard Island, in 14° 40′ S. lat., has a bold aspect of nearly 1,200 feet elevation, composed entirely of granite, and nearly destitute of wood, on the westward is a grassy well watered plain, with some smaller ridges. The appearance of the coast now changes from moderately high conical-shaped hills to table-land ranges of 500 to 600 feet, trending about south-west and by west

Cape Melville, which stands out like a shoulder for more than forty miles beyond the coast line, is composed of piles of reddish coloured stones, scattered about in the utmost confusion, and in every possible direction, over a high ridge. There are several dangerous islands and rocks off this headland.

Princess Charlotte Bay is large and free from shoals; at the head of the bay is a remarkable level-topped hill, conspicuous from the low nature of the surrounding country.

Claremont Islands are a low rocky group, surrounded by coral reefs.

Cape Direction has a moderately increasing height, compared with the coast immediately to the southward. A round hill, in 13° S., has an altitude of 1,250 feet.

Restoration Island [visited by captain Bligh in the Bounty launch, in 1789,] in 12° 37′ S., is a rocky lump, terminating in a granitic peak, 360 feet high. It was so named by Bligh, from his having seen it upon the anniversary of the recal of Charles II. to

the throne of England.

Fair Cape, and thence to the northward, presents a series of undulating hills from 500 to 700 feet in length. The monotonous aspect is broken by Pudding-pan hill, so named by Bligh from its resemblance to a sailor's pudding-pan. It has a height of 354 feet.

Cape York, the most northern point of Australia, has a small rocky island not quite 300 feet high, steep, and nearly conical, separated from the main land by a narrow boat passage. Immediately south of Cape York Island the land rises into a somewhat sharply-peaked hill, with an elevation of **420** feet It is called Bremer Peak. the eastward is a shallow bay, with a flat sandy beach, backed by a belt of jungle, then a small woodland, and behind rocky hills 300 feet in height, one ridge of which comes down to the beach. Excellent fresh water is everywhere procurable by digging. and this position seems well adapted for a British settlement, as it would, in fact, form a "corner shop" for all vessels passing to the eastward.

Endeavour Strait, between Cape York and Cook's islet, is a safe harbour for shipping, except in one or two places near the shore. The west entrance is encumbered by large sand banks, through which, however, there is a safe passage, with never less than four The islands which stretch fathoms water. to the northward from Cape York, across Torres Straits to New Guinea, are all rocky, steep, many 500 feet high, and composed, hke the rocks of the adjacent main land, of porphyry, sienite, and siliceous schist. Mr. Jukes considers them merely the submarine prolongation of the great mountain chain of the east coast of Australia, and which passes from New South Wales to the southward. through Bass' Straits to Van Diemen's Land. The loftiest and most massive portion is between Cape Upstart and Cape Melville, whence it gradually decreases to Cape York, where the hills are 500 to 600 feet high.

Possession Islands in the mouth of En-

deavour Strait, and the larger islands to the northward, are all rocky and barren, with here and there small fertile and cultivable spots, and by no means deficient in beauty, being of varied and undulating surface, with lofty peaks and ridges, and sheltered valleys, but they seem to be mostly destitute of water except in the rainy season, their inhabitants are few and scattered, and appear to be peaceable and well-disposed.

Booby Island, much frequented by boobies, pigeons, and quals, called also the "Post Office," forms the western limit of all the dangerous part of Torres Straits in the ordinary track of vessels, and for half the year it is a constant place of resort for vessels proceeding to India and China from Austraha. It is a mere rock, about fifty feet high and a quarter of a mile in diameter, the summit

consisting of bare porphyry.

A shed has been erected, beneath which is a large chest containing a blank book with pens and ink, a bag of beef and some biscuit for any boat's crew escaping from a wreck Letters are left here by ships, and notices are entered in the book announcing their safe arrival. (A similar practice prevails at the Galipago Islands in the Pacific among the whalers.) All the ships which have recorded their passage at the "Post Office" appear to have entered the Barrier Reef between the parallels of 11° 30′ and 12° 10′. generally about 11° 50', reaching Sir Charles Hardy's Island the same day. They al note a strong northerly current outside the reef, in some instances of nearly three miles an hour. The time occupied in making the passage from Sydney by the outer route was from fourteen to twenty days, which was shorter than the route between the reefs and the main land, though attended with much greater risks. In traversing the "inner route," vessels are obliged to anchor every night, which is a severe labour for the small crew of a merchant ship.

The Barrier Reefs are a peculiar and important feature in the N and N E coast o Australia; the great coral reefs form a vasisubmarine buttress which skirt the shore and in the instance of the "Great Barrier Reef" extend from Breaksea Spit in 24° 30 S. lat. and 153° 20′ E. long., to Bristov Island on the coast of New Guinea, in 9° 15 S. lat. and 143° 20′ E. long., a distance in straight line of about 1,100 geographical, o 1,260 statute miles—the longest known coral reef in the world. This reef stretches along the Australian coast at a mean distance o

hirty miles from the land; the outer edge being in some places not more than ten or ifteen, in others 100 miles distant. Outside he barrier there are numerous detached eefs, of greater or less magnitude, extending rom Torres Strait to New Caledonia; but he distance of these isolated reefs from the Great Barrier, is from sixty to one hundred miles. There are therefore two passages for essels sailing from Sydney by the N.E. oute to Singapore, China or India, via Torres straits-first, the INNER passage, about thirty miles wide, between the main and and the Great Barrier; and second, he Outer, sixty to one hundred miles wide, between the Great Barrier and the detached reefs and coral islets, which are so numerous that Flinders gave to Torres Straits the appellation of the coral sea. Mr. Jukes, the naturalist, on board H.M.S. ly, captain Blackwood, recently engaged in aying down beacons, by which vessels proceeding to the eastward through Torres Straits might be enabled safely to enter the principal openings in the Great Barrier in order to pass between Australia and New Guinea, has given in an interesting "Narrative of the surveying voyage of H.M.S. Fly," useful details respecting these reefs, on the authority of Mr. Evans, master of H.M.S. It appears that the Great Barrier reef is composed of different formations of coral, viz .-the (1) linear, (2) detached, circular, or oval groups. The linear rise from great depths, have a breadth varying from a quarter of a mile to a mile; are in length from three to fifteen miles; have on the outer side an unfathomed depth, and on the inner, soundings of from ten to twenty fathoms. The detached reefs are generally circular or oval, flat at the surface or near the level of low water, the edge gradually rounded off, sloping down into deep water, sometimes to 200 fathoms, and at Wreck Bay to 285 fathoms without soundings. The centre consists generally of dead coral branches, among dazzling white sand, the living corals are more to the edge of the reef. The line of reefs runs N. and N. by E., whilst the Australian coast trends to N.N.W.; the distance from the land is gradually increased, and at Cape York in 11° 40' S. lat. the passage is eighty to ninety miles wide; it is, however, supposed there are several inner reefs, and as the coral polypi are continually sending up new banks, this passage, even with its smooth water, must always be hazardous. On the authority of captain Flin

about 350 miles from the southern opening 300 fathoms. tranguil.

Wreck Reef, upon which captain Flinders was wrecked with H.M.S. Porpoise and Cato, Breaksea-spit, and it was then an incipient living verdute. island, in length 150 fathoms, by fifty in or four feet above ordinary high water A few diminutive salt-water plants resisted the saline spray; the eggs of sea-fowl were observed; and probably now there are cocoanut or other trees, whose nuts or roots have been drifted there by the ocean.

On a reef may be seen coral growing beneath the surface of the clear water, in the shape of wheat sheaves, mushrooms, stag's horns, cabbages, and a variety of other forms, with vivid tints of every shade betwixt green, purple, brown, and white; equalling, says Flinders, in beauty, and excelling in grandeur the most favourite parterre of the curious florist.

The manner in which a coral reef is formed is very singular. The animalcules singular instinct to make their structure perplace, to increase the elevation of their air. habitation, and the coral wall, where the

ders, it is stated that the Great Barrier reef surface of the ocean to windward: so that towards the south, is ninety to one hundred the insect may have shelter to send off numemiles from the shore, with which it has no rous colonies to leeward, protected from the cross communication. The breadth of the wind and surf. Hence the greatest depth reef towards the south is forty or fifty miles; of water and the highest part of a reef is it becomes narrower towards the north. At always to windward, and the wondrous Cape Tribulation, in about 16° S. lat., the structure thus raised has, on the one side, a Barrier Reef closes in with the shore. For nearly perpendicular elevation of 200 to When the reef is raised off Breaksea Spit, there is no navigable pas- above high-water mark, the coral insect sage through the barrier that can be safely ceases to exist. The different corals, in a trusted: there are some crooked intricate dead state, are converted into a solid mass openings. The interior passage between the of a dull white colour; and some lumps, reef and the land is remarkably clear from called "negro heads," higher than the surdangers, except in the vicinity of the numerounding mass, become blackened by the rous little islands with which it is dotted, weather. Sponges, sea-eggs (echinæ), enorthe depth of water at a distance from mous cockles (chamagigas), and "cucumthese islands is very uniform. When the bers," (a large slug called holothuria, by the wind is from the east, the sea breaks upon French beche de mer, by the Chinese trepang), the outer margin of the reef with terrific and other substances soon fill the crevices of violence, but the inner waters are perfectly the reef: sand accumulates; sea-birds make the bank a place of incubation; soil is formed: the seeds of shrubs and trees, which constitute the food of some birds, are deposited on in 1803, is 300 miles to the north-west of the island, which soon becomes a mass of

The beacon erected by captain Blackwood, breadth, with a general elevation of three of H.M S. Fly, on Raines islet, as a mark for the best passage through the outer line of reefs, is a circular stone tower, forty feet high, and thirty feet in diameter at the base, where the walls are five feet thick. Internally it is divided into three stories, accessible by ladders. The roof is a domeshaped frame of wood, covered by painted canvas. The summit is raised seventy feet above low water-mark. There is a large tank adjacent; and a garden has been planted with cocoa-nuts, maize, pumpkins, &c.

Torres Strait is one mass of islands, reefs, and shoals, with six to twelve fathoms water at the narrowest part, and nowhere deep water, so that with clear weather, and the sun vertical or in the rear, a vessel may be safely navigated. The beautiful light of the which produce the coral, commence with tropics is increased by the reflection of the nearly colourless bottom, covered with various pendicular; when they cease to live, the molluscæ, some perfectly transparent, others whole mass becomes agglutinated, and the of various hues. Fish of all sizes, shapes, insterstices are gradually filled up by sand and colours are seen; the voracious shark and broken pieces of coral washed up from eagerly pursuing his prey, the turtle rolling the sea, until a mass of rock is formed. along in his unwieldy shell, and sea-snakes Another race of animalcules then proceed of large dimensions and of glowing lustre to build on this foundation. As each suc- may be traced in their rapid gliding movecessive generation perishes, another takes its ments as clearly as if they were flying in the

The Gulf of Carpentaria extends inland winds are pretty constant, first reaches the 600 miles, and has a breadth of 400 miles

its coast line measures about 900 miles, above high-water level, and were generally including the bays and windings. shores are almost invariably low, and the many instances, extensive clear flats were water everywhere shallow towards the edge, observed, reaching occasionally from the sides with a bottom of blue mud or sand. The of the inlet toward the upper parts, and when greatest depth of soundings in crossing the seen in June, they were the resort of large southern part of the gulf from coast to coast, is fifteen fathoms; fine, dark, sandy, mud bottom. The lee shores are covered with mangroves, behind which water is often seen. Trees (palms of considerable height) are found on some elevated places, but barrenness is the general character of the surface. Flinders says that for the space of 600 miles, between Endeavour Strait and a range of hills on the main land, west of Wellesley Island, at the bottom of the gulf, no portion into a beautiful sheet of water, a quarter of of the coast is higher than the mast-head of a ship; some part of Wellesley Island is more elevated than that of the main, but the highest does not rise 150 feet The general appearance of the head of the gulf is that of a low mangrove shore, ten to thirty feet high, over which the interior is not visible from the offing. Nearly 200 miles of the south-eastern coast were minutely examined by the surveying officers of H M.S. Beagle, twenty-six inlets were discovered, of which two proved to be rivers, whilst three more were nearly as promising.

coast of the gulf, is considered by Stokes to be an inlet rather than a river, but its waters appear to be less salt at low tide. The bar. three-quarters of a mile off the mouth of the inlet, has only two feet on it at low water, but the first reaches of the inlet or river have a depth of one and a half to three fathoms, and a width of 200 to 300 yards, the stream then becomes much narrower, and so tortuous, that its windings of twentyseven miles only brought the explorers to eight miles, in a 60° S E direction, from the entrance; then dividing, one branch trends south, and the other east, each being about fifteen yards wide and two feet deep; the water was quite salt, and the mangroves were growing on either side at the point where the examination was abandoned. At the mouth of the river the coast bears the same low, sandy, or mangrove-clad appear-

The fringed with mangroves, behind which, in flights of the bronze-winged pigeon.

Flinder's River, on the south shore of the Gulf, was discovered and explored by captain Stokes, to the extent of thirty miles to 17° 51' S. lat., m a general S. by E. & E. direction from the entrance It separated into two branches, one taking an easterly, and the other a southerly direction. After passing the sea-bank, the depth was one fathom; further inland, the river expands a mile in width, but only three feet in depth. here and there diversified by low islets, clad with emerald verdure, with, on the other hand, green and grassy cliffs, sloping almost imperceptibly to the stream; anon the eastern bank becomes steep, overhanging and clothed with a mass of luxuriant creepers, whilst the opposite side presents a low woody patch, partly immersed by the glassy, lakelike waters of the river. At the bifurcation of the stream, a rocky formation of a red ferruginous character was observed. country appeared to abound in rose-coloured Van Diemen's River, on the south-east cockatoos, whistling ducks, and vampyres.

The Albert River, discovered by the surveyors of H M S. Beagle, also disembogues in the southern part of the Gulf, in 17° 35' 10" S. lat, and 7° 35' 50" E. of Port Essington It has a bar with thirteen and seventeen feet of water, and is navigable for vessels of a draught suited to the bar for thirteen miles, and within five of where the saltness of the stream ceases The opening of the river for three miles is almost straight. in a south by west direction, with a width of 200 yards, and a depth of two and-a-half to five fathoms, the banks fringed with mangroves Eight miles from the mouth are two islands, and two others four miles further up, where the breadth is nearly a mile, and the depth two fathoms The river winds tortuously to the south and east, through a rising country, with occasional grassy plains, a soil of a light brown colour, void of ance noticeable in other portions of the sand, of considerable depth, and thickly eastern coast of the Gulf of Carpentaria; the wooded. Further inland the country behighest elevation seen was six miles from the comes perceptibly higher,—the scenery exentrance, where the banks attained an eleva- tremely picturesque, tall palm trees and tion of ten feet, the rise being marked by a bamboos, fifty feet high, rise from the thick growth of eucalypti of tolerable size; else- foliage on the lower slope of the banks; and where the banks rose scarcely three feet at Hope Reach, a magnificent sheet of water is bounded on either bank by extensive grassy whose general elevation does not exceed Promise."

Bountiful Islands form the eastern part of the Wellesley group on the south-west coast They were so of the Carpentaria Gulf. named by Flinders on account of the plentiful supply of turtle found there. He mentions having obtained from one turtle 1,940 horizontal top an edge. north-west coast frequented by the turtle, and which is probably their food. The islands are one mile and-a-half from each other; the larger and more northerly is two miles and-a-half long by three-quarters wide. with cliffs on the south-east side of sand and ironstone formation, the latter predomina-

Sweers Island, south of the Bountiful Islands, bounded by low dark cliffs on the north-east, is very woody, and was found

to be literally covered with locusts.

either way, is slightly elevated, thickly

winged game.

Point Inscription (so called from a tree being found by Stokes, with a notice of Flinders' visit in the Investigator forty years previous cut thereon) is in 17° 6′ 50″ and

7° 28′ 30" E. of Port Essington.

The west shore of the Gulf of Carpentaria is somewhat higher than the east shore, and from Limmen's Bight to the latitude of Groote Eyland, is lined by a range of low Proceeding to the northward the coast becomes irregular and broken, consisting chiefly of primitive rocks, the upper part of the hills being composed of a reddish sandstone. The general range of the coast, from Limmen's Bight to Cape Arnhem, is from south-west to north-east; and three conspicuous islands at the north-west entrance of the Gulf of Carpentaria have the same general direction. Low land extends westward to Castlereagh Bay and Goulburn's miles from the coast, through a country to feed a single cow. The heat at Port

plains, dotted with 'woodland isles' springing more than three feet above high-water mark; from a rich light-coloured mould. The river the banks low, muddy, and thickly wooded. now becomes a shallow, rapid stream, and in West of Goulburn Island the coast is more 17° 58′ 30" S. lat., 129° 25′ E. long., the broken and irregular, but the elevation is country is most inviting; the line of verdure inconsiderable, Coburg Peninsula not being pointing to the south over the "Plains of more than 150 feet above the sea, and the hills about 300 to 400 feet in the background between the Laverpool and Alligator rivers. Some of them are remarkable for their linear and nearly horizontal outline, the tops resembling that of a roof or a haycock, the transverse section being angular, and the horizontal top an edge. The Cobourg Pen-Near the islands was noticed by insula projects N.W. from the main land Stokes, a "shrubby, thick, compact sort of of Australia for a distance of fifty miles, sea-weed." also seen on the parts of the the greatest breadth being fifteen miles, and the narrowest, five miles.

Port Essington, in 11° 6' S. lat., and 132° 12' E. long., is seven miles wide between Point Smith on the east side, and Vashon head on the west. The port extends about eighteen miles in a S.S.E. & E. direction, with a depth of twelve to five fathoms. At the southern end it forms three spacious and secure harbours, each of them extending inwards three miles, with a depth of two and five fathom soundings; mud and sand. The shores of Port Essington consist of Bentinck Island has an extent of ten miles little bays and sandy beaches, alternating with bold cliffs and steep clay-banks; inland, wooded, and abounds in several sorts of a continuous forest of trees, occasionally relieved by undulating or round hills, with an elevation of 100 to 200 feet above the At Port Essington, the sides of the harbour are formed by several low rocky headlands, and cliffs of red or white sandstone and ironstone, twenty to thirty feet high: between the cliffs are shallow coves, backed by mangrove swamps, and behind a low country, with a sombre wood of low eucalyptic trees. Victoria (a recently-formed British station) consists of a few wooden houses, on a flat piece of land forty or fifty fect above the level of the sea, on the west side of the harbour. The soil in and around the settlement is poor, and except in the swamps and lowest hollows, composed of the detritus of sand and ironstone, without any apparent mixture of vegetable soil. Large tracts were seen with scarcely a blade of grass, and little or no undergrowth, and the forest, or "bush," looked like a badly-Island. The Liverpool Rwer, on this part of kept gravel-walk, on which a few small trees the coast, is four miles wide at its mouth, were growing. When visited by H.M.S. with a tortuous and rather shallow stream, Fly, in August, 1843, there was not grass which has been traced inland to about forty enough, within a mile of the settlement

the thermometer stood often as high as sioned by the Malays not coming on fishing 96° at eight a.m., and 100° and upwards expeditions as was expected. at noon. For four years after the settlement was established, captain M'Arthur, coast of Australia by Clarence Strait, which and the marines stationed there found it is about fifteen miles wide, hes between the healthy; but the rainy season, which comparallels of 11° 8′ and 11° 56′ S. lat., and menced so early as October, 1842, and the meridians of 130° 30′ and 131° 34′ E. lasted to April, 1843, is supposed to have long., five degrees west of the Gulf of Carcaused great sickness, which has continued, with more or less severity, ever since; and the detachment of fifty marines have experienced considerable diminution of numbers, and been several times relieved By the last accounts at the period at which I am now writing (January, 1850), there were only two or three marines fit for duty. The attempted formation of a settlement at Port Essington has been unsuccessful. Mr. Jukes, who has visited many of the colonies, and whose unprejudiced mind entitle his remarks to considerable weight, visited Port Essington four times, at different periods of the year, and thus strongly expresses his opinion, which he supports by various arguments ---"I believe it to be utterly worthless as a colony, or as an agricultural or commercial possession." It is not adapted for a harbour of refuge, as it is 600 miles from the extreme limits of the sea, where wrecks are most likely to occur; namely, the coral sea and the eastern side of Torres Straits. Low land and shoals, to the east of the harbour, render it difficult to find, and dangerous to approach; and the settlement of Victoria, sixteen miles up the harbour, would, in addition to the deviation from the ordinary route of the fair or trade wind, ensure any passing vessel a detention of at least two days to look in there. Added to this, the climate is decidedly unhealthy; many valuable lives have been lost, and the government have consequently resolved to withdraw the men and officers stationed at Port Essington, which is now being done.

Raffles Bay, in 11° 12' S. lat., 132° 26' E. long., thirteen miles east of Port Essington, is of a circular form, with a diameter of three miles, and shallow depth, varying from three to four fathoms. The coast about Port Raffles is exceedingly low, and has been compared to the coast of Orissa in Bengal, and also to that of Demerara; there are few of 400 tons. The windings in some places patches of good soil, and it would seem ill are in the shape of the letter S. adapted for an agricultural or pastoral set- distance in 12° 57' S. lat., 131° 19' E. long., tlement.- The British colony, established the stream became very narrow, and divided here in 1827, was abandoned in 1829, on into two branches, one proceeding in a

n is very great. In January, 1845, the natives, and the disappointment occa-

Melville Island, separated from the north pentaria, and distant 330 miles from the island of Timor in the Eastern Archipelago. The extreme length from Cape Van Diemen to Cape Keith is seventy-five miles; the extreme breadth from Cape Radford on the north to Cape Gambier on the south is thirtyseven miles. The surface of the island is low and gently undulating, averaging from twenty to seventy feet above the sea, except on the south coast, where some peaks have an altitude of 250 feet. The north line of coast is low, and lined with mangroves; the east, west, and south sides more elevated, sometimes forming abrupt cliffs or clay banks. The interior consists of almost impenetrable mangrove swamps and close forests, the largest timber measuring sixty feet of stem, with a diameter of three feet. The soil, so far as ascertained, is poor. In 1824, a British settlement was formed on the island in Apsley Strait, but it was abandoned in 1829.

Bathurst Island, separated from Melville Island by Apsley Strait, is of a triangular shape, each side measuring about forty miles. It is similar in appearance and production to its neighbouring island. The approach to Apsley Strait is intricate, beset with shoals, and notwithstanding an excellent survey made by major Campbell, of Her Majesty's 57th regiment, formerly commandant of Mclville Island, too dangerous for general navigation. Apsley Strait, and the creeks and rivers on the north coast of Australia, abound with alligators of fourteen to twenty feet in length, and sea and land snakes two

to twelve feet long.

Adelaide River, seventy miles from Port Essington, falls into Adam's Bay. Clarence Strait has a depth of four fathoms where it empties itself into the bay. Captains Wickham and Stokes, R.N., traced the river in a southerly direction nearly eighty miles, and found it navigable for fifty miles for a vessel account of its unhealthiness, the hostility of southerly and the other in an easterly direc-

but beyond there a fine prairie was observed, with a soil of light-coloured mould, dotted here and there with "islands of timber." and on the banks a thick jungle of bamboo, some of which attained the extraordinary height of sixty to eighty feet.

especially on the west side and has singular-looking detached peaks in

the background.

Point Pearce, Treachery Bay, where captain Stokes was speared and nearly killed by the natives, is in 14° 25′ 50″ N lat., 2° 49′ W. of Port Essington. It has wooded cliffs of a reddish hue, from the quantity of iron in the rocks.

The Victoria River, one of the largest streams in Australia communicating with the ocean, was discovered by captains Wickham and Stokes, in September, 1839; and explored, with great perseverance, by the latter-named officer. The mouth of the river is in 14° 20' S lat., 129° 21' E long, between Turtle and Pearce Points, in Queen's Channel, which is there twenty-six miles wide.* The river was traced to a distance Cambridge Gulf, a swampy arm of the of 140 miles from the sea; for the first sea, extends inland eighty miles in a souththirty miles of the upward course its character undergoes little change; the left side continues bold, with the exception of a few extensive flats sometimes overflowed, and a remarkable rocky elevation about twentyfive miles from the mouth, to which the name of the Fort was given, on account of its bastion-like appearance (subsequently groves, and subject to overflows. At thirtyprecipitous rocky range of compact sand-

. Discoveries in Australia; by Captain Stokes, R.N.; vol 2, p. 113.

For thirty miles of the upper course hour. It continues a rapid stream through of the Adelaide the water was fresh, and the this defile for about thirty miles, and is banks, except at the point of separation, not subsequently found flowing slowly across a more than five feet above the level of the rich alluvial plain fifteen miles in width. A mangrove swamp occupied the Beyond this plain the Victoria passes through country for fifteen miles towards the mouth, another but less elevated gorge, viz., 400 to 500 feet, whose elevation increases as the river is ascended, and the width, depth, and velocity of the stream decreases. In proportion as the high land or banks approached the channel on one shore, in the same degree it was found to recede from the opposite Port Darwin, in 12° 27' 45" S. lat., side; and supposing the whole valley to 1° 19′ 40" E. of Port Essington, has an en- have been at one time filled with water, trance between white cliffy projections, three the breadth above Reach Hopeless and at miles distant from each other; although of Mount Regret must have been from three considerable size, it has much shoal water, to five miles. When captain Stokes reluc-The shore is tantly quitted the further exploration for low and sandy, sprinkled with brush-wood, want of provisions, and from the illness of one of his men, with whom it was necessary to return to H.M.S. Beagle, he could perceive, "far, far away, the green and glistening valleys through which it wandered:" he felt assured "of the constant presence of a large body of water," and convinced that the Victoria "will afford a certain pathway far into the centre of Austraha." The coast to the E.N.E. of the mouth of the Victoria consists of vast ranges strewn over with huge blocks of sandstone; chasms, ravines, and thirsty stone valleys yawn on every side; and all around is broken, rugged, and and, as if the curse of sterility had fallen on the land, presenting a strong contrast with the country seen up the Victoria river.

erly direction. In its vicinity, the general flatness of the country to the northward and eastward, as far as Cape Wessil, a distance of 600 miles, ceases, and is succeeded by irregular ranges of detached sandstone hills, which rise abruptly from extensive plains of low and level land. From Cape Londonderry to Cape Voltaire the country called Table Hill in the chart). The right is of moderate elevation, with mountains shore continues low, studded with man- in the back-ground. The coast has a direction from north-east to south-west, with five miles from the embouche, the scenery numerous indentations, and the adjoining entirely changes; the river runs between a sea is studded with sandstone islands. York Sound, a spacious bay, is bounded by prestone, rising to a height of 700 to 800 feet, cipitous rocks from 100 to 200 feet in heighth. and is here sometimes two miles wide, having It receives two rivers, so far as known, of in several places a depth of twenty fathoms, small dimensions. One of the largest inlets and rushing with a velocity of six miles an on the north-west coast, termed Prince Regent's River, is about thirty miles to the south-west of York Sound. The course is east direction; its rapid passage over stone ravines, enclosed on either side by maccesblocks has prevented its further exploration: sible cliffs, or valleys of great width, borbut at that distance from the sea it is 250 dered by fertile and often extensive plains. yards wide, with abrupt banks of reddish which occur where the basaltic rocks are sandstone, 200 to 400 feet high. St. George's developed. One valley in which governor Basin, in Prince Regent's River, is a noble Grey and his party encamped, had a main sheet of water, ten or twelve miles across: width of only 147 feet; and, half a mile on its south side deep inlets run up into from the sea, the rocky precipitous cliffs a low marshy country leading to fertile dis-rose 138 feet. The sandstone formation is tricts: on the north bank lofty mountains, ntersected, in all directions, by valleys of crowned with castellated summits, rear their sterile heads over the broad waters. Cap- or three miles apart, while the top of the tain Grey, in his very interesting Journals of range between them is a table land, divided two Expeditions of Discovery in North-West by lateral valleys, and gently rising towards and West Australia, says, that the most the interior. Seawards they all terminate remarkable geographical feature in North- in salt-water creeks, having the same narrow. West Australia is a high range of mountains, rocky, and precipitous character. The richest running N.N.E. and S.S.W., (named by land is found upon the valleys of the second him Stephen's range,) from which several branches are thrown off:—1st. One between Roe's River on the north, and Prince Regent's River on the south; 2nd. Macdonald's range, that throws off streams to Prince Regent's River on the north, and to Glenelg River on the south; 3rd. Whateley's range, which gives forth streams to Glenelg River on the north, and to the low country, behind Collier's Bay and Dampier's Land on the These branch ranges, as well as the primary one, are composed of ancient sandstone, deposited in nearly horizontal strata, or of basaltic rocks, which are only visible in certain places, and are fully developed west coast is very imperfect. in that part of Stephen's range which hes behind Collier Bay, and in the low ground near Glenelg River. The extent of Stephen's range captain Grey was not able to ascertain; but it contains within it the sources of Roe's River, Prince Regent's, and Glenelg rivers, most probably the Fitzroy, those that run into Cambridge Gulf, and perhaps others that have their embouchures between Cambridge and Admiralty Gulfs Governor Grey does not consider this range very elevated: he estimated the highest parts of the table land of Macdonald's range at 1,400 feet above the sea, and the altitude of the farthest point reached of Stephen' range at 2,500 to 3,000 feet. The rivers on the north-west coast resemble those of the south-east part of Australia. They rise at no great distance from the sea; near their sources are mountain torrents; and, in the low lands, streams, with slow currents, flow to Hanover Bay or Port George the Fourth, through extensive and fertile valleys or plans, subject to considerable inundations.

almost rectilinear for fifty miles in a south- two descriptions—those which are almost this kind, which are seldom more than two lass, where the streams flow through wide plains, and have their margins thinly wooded. Fine vegetable mould was seen by captain Grey, ten or twelve feet in thickness.

The Gascoyne River is apparently one immense delta of alluvial soil covered with gently sloping grassy elevations, which can scarcely be called hills, and in the valleys between them are many fresh water lagoons, which rest upon a clay soil. The country is lightly timbered, and well adapted for agricultural or pastoral purposes, but especially for the growth of cotton and sugar

Further mformation relative to the north-

The shore in the neighbourhood of Hanover Bay is formed of enormous granite boulders, which render it hardly accessible except at high water. A red sandstone platform is abruptly intersected by singular looking valleys; the precipitous cliffs at first approach each other, and then recede inland in a southerly direction. It was from one of these valleys that captain Grey met so many obstacles in his attempt to penetrate the interior. Hanover Bay is a fine harbour, but not so easy of access from seaward as the contiguous haven of Port George the Fourth: but both afford safe anchorage, abundance of fresh water, plenty of fuel, and a fine beach for the seme. Fish, however, are scarce on the north-west coast. The numerous islands and reefs which skirt the shore, greatly diminish the value of these fine harbours.

Red Island, a good guide to the entrance is small, rocky, of no great elevation, with precapitous sides and a clump of trees in the The valleys of the north-west coast are of centre. The coast off Entrance Island (Port

George the Fourth) is arid and barren, with miles from Port George the Fourth), which a line of lofty cliffs occasionally broken by is twenty miles wide at the commencement, sandy beaches, and a back-ground of rocky and narrows to six near the head of the bay, sandstone hills very thinly wooded. Gene- fifteen miles from Eagle Point in 16° 10' S. rally speaking, the north-west coast is well lat. watered, and although the country around south by west direction, formed of shallow Hanover Bay is very rocky, it has some rich bights, flanked by hills of moderate elevation. and beautiful vallies.

Doubtful Bay, in 16° 4' S. lat., has a table land, of sandstone formation, 900 feet above the waters of the bay. The prospect from the summit is cheerless; similar ranges of less height meet the eye in every direction branching towards the interior; those overlooking the eastern shore of the bay are from 600 to 700 feet high. Captain Stokes doubts that any land, as estimated by captain Grey, of two to three thousand feet high, exists within thirty miles of the height on which he stood. Captain King mentions hills of from three to four hundred feet high. at a distance of fifteen miles. It is uncertain whether this bay receives the waters of any river. Mr. Helpman, who explored the south shore of the bay, ascended a high hill, and "feasted his eyes on a most luxuriant well watered country," bearing E.S.E. about eight miles, lying at the eastern foot of a remarkable peak, visible from Port George the Fourth. To the north-east are the Macdonald range of hills, which are estimated by captain Grey at 1,400 feet high; Mr. Helpman, however, says they are "apparently of no great elevation" Part of this rich land stretches to within five miles of the south-east part of Brecknock Harbour, which is six miles deep, extends gradually from a width of one and three-quarter miles at the of water varying from five to seven fathoms, with a soft muddy bottom. Rocks of transition origin were met with in this neighbourhood, leading to the inference that the soil is of better quality than that formed by the decomposition of sandstone of recent forma-Captain Stokes found, on landing in the neighbourhood at mid-day, "the air quite perfumed with the fragrance of different gums."

The Montgomery Islands (so called by captain King, after the zealous and enterprising their opinion, it offers a means of access to surgeon of his ship, who here received a the interior, by which future explorers may spear wound from the natives, which nearly further improve our geographical knowledge proved fatal) consist of six small rocky islets, of this part of Australia. The country near resting on an extensive coral flat; the eastern the embouche of the river is one vast unand largest is seventy feet high, in 15° 49' broken level, covered with strong, wiry grass, S. lat. They form good landmarks for the and intersected by numerous water-courses.

The eastern shore has a south and a The western shore runs in a north-west by west direction, has a straight rocky coast, over which a range of barren heights rise

abruptly. King's Sound is a deep inlet on its eastern shore; the face of the country is intersected by deep ravines, and covered with huge blocks of coarse sandstone. From the top of one of the highest hills, captain Stokes reckoned more than eighty islands in this portion of the adjacent archipelago. crossed two deep bays in the sound—the first three and the second four and a half miles wide-both affording good anchorage, but maccessible from the barrier reefs and islets across their mouths. These bays and the ranges of adjoining hills trended E.S.E. a distance of seventeen miles in a N.N.E direction from the ship in 16° 24′ 30″ S. lat., captain Stokes found the same huge masses of rock, and from the summit of one of them observed yet more numerous islands on the coast, which is indented with bays two to five miles in width, containing long narrow islands invariably trending in an E.S.E. di-The bays generally subsided in a rection The scenery at Print S S W. direction. Usborne, in King's Sound, is very wild; on the north side of the Sound, distant twentyone miles is Point Cunningham and Carlisle Head, which appear like two high squareentrance, to five at the head, and has a depth looking islands. The eastern shore of King's Sound, at forty miles from Port Usborne in a direct line, and seventy by the winding course of the main land, forms eight bays, varying in depth three to eight miles, and in width two to five: their general trend 18 E.S.E. Many islets skirt their shores, and almost more than can be counted fill their mouths.

The Fitzroy River, which disembogues into King's Sound, was traced by captains Wickham and Stokes for ninety miles; in entrance to Collier's Bay (distant eighty The general direction of the Fitzroy is south; at a few miles from the coast the width suddenly contracts from three miles to one: the banks low and covered with a coarse grass. Further south low grassy islets extend across the river, and leave only confined and shallow channels. Passing these islets at a distance of nearly thirty miles from the sea, the stream again widens to 400 or 500 yards, with a depth of twelve feet at low water. country then begins to improve, the eastern bank becomes thickly wooded, and subsequently the western is seen clothed with ver-The course of the river now becomes very tortuous; sometimes in a SW. by W. direction, then to S.E., round to W.NW; next three reaches trending S.S.W., S W., and S., from a mile to half a mile in length, the depth of the stream varying from one to fourteen feet; width from three to five hundred yards. In the deep reaches were the decaying wrecks of large trees, indicating great inundations. The east bank has here an elevation of twenty feet, is covered with long grass, and thickly wooded with a luxuriant growth of the white eucalyptus From the total absence of every appearance of animal life, an air of solemn tranquillity is impressed upon the scene Captain Stokes climbed the highest tree on the eastern bank and the landscape presented to his view was an almost uninterrupted level, open wood lands, with here and there grassy spots, were its prevailing features. Proceeding further the explorers entered a lake-like reach of the 120° 37′ S., 117° 44′ E, presents a singular river, trending south for a mile and a quarter, the breadth about one hundred yards, and the depth in many places of twelve fee (twice that usually found in some of the lower reaches), and no current A coarse red grained sandstone, with fragments of quartz were found on the west bank for nearly quarter of a mile along the edge of the water over many parts of it was a coating of a dark and metallic appearance, about three inches thick, and the surface in places presented glazed or smelted appearance After passing this canal, the Fitzroy divides into two branches, one having an E.S.E., and the other S.S.E. direction; both are with diffi culty navigated by boats, and are deep reaches connected by shallows, and subjec to mundations, during which the water rise: to a height of twenty feet. The country of the westward, as far as could be seen fromhigh tree, is open, with clumps of small trees and green grassy patches between them In other directions it is densely wooded, and on the eastward the trees are large. The ex

loration was given up in 17° 44' S. lat.. 24° 34' E. long., the river having been traced twenty-two miles in a general S.S.W. direction, and ninety miles from the coast line. At this point, the channel of the southerly branch was found to be wholly choked with islets and sunken trees: the banks were twenty feet high, and covered with grass; partially broken or washed down. they disclosed to view a rich alluvial soil, nearly two feet deep. The trees seen were hiefly two species of palm, three of the ucalypti, stunted Banksia, acacia, and a singular tree with a rough bark like the elm. and a deep dark green foliage.

The Buccaneer's Archipelago consists of many islets, skirting the coast between Prince Regent's inlet and King's Sound. The land in the interior is rugged and lofty, and the shore much indented with several fine harbours. The outline of the coast about Cape Leveque itself is low, waving, and rounded, and the cliffs, as is generally the case on the north and north-west parts of Australia, of a reddish hue; but on the south of the high ground at Cape Leveque, the stoney cliffs are succeeded by a long tract which appears to consist of low sandy land, fronted by extensive shoals.

Dampier's Archipelago, and the adjacent coast, is still but partially surveyed: the shore is rugged and broken.

contrast with the low, flat shores of the main land, from which it is only a mile distant It is of a circular form, eight miles in circumference, and is composed of a vast pile of large blocks of greenstone, heaped up in rugged and irregular masses, to the height of 514 feet It has much the appearance of basalt: here and there, near the summit are a few stunted green trees; but, generally speaking, the island is devoid of vegetation and very different from the other low islands of Forester's group, of which it is the chief.

From Cape Preston, in 21° S. lat., to Exmouth Gulf, the coast is low and sandy and does not exhibit any prominences. The west coast of Exmouth Gulf is formed by a promontory of level land, terminating in the North-west Cape from thence to the south-west, as far as Cape Cuvier, the general height of the coast is 400 to 500 feet. N mountains are visible from the coast-range.

Kok's Island, in the Geographe Channel, is very remarkable; nearly a table land, about a quarter of a mile in length, terminating in

Shark's Bay, and the continuous western and southern shores of Australia, will be described in the respective books of Western

and Southern Australia.

connected view of the tropical coast-line, including the north-east, north, and northwest shores of the island continent; a few general observations on Geology and Chmate will follow an outline of the-

PROGRESS OF INLAND DISCOVERY. — It would far exceed the limits of the present work to enter into a detail of the toilsome and perilous explorations of the brave adventurers, who, at the imminent hazard, and, in too many instances, at the sacrifice of their lives, have acquired the vet imperfect information we possess concerning the interior of this vast continent. It must therefore suffice to enumerate the most important of these those which have led to practical results. From the very commencement of the settlement at Port Jackson, strenuous endeavours appear to have been made by the colonists to penetrate beyond the mountain-belt, already described as forming the leading feature in the physical aspect of Australia. The efforts of Messrs. Bass, Caley, Barralher, and others, were totally meffectual, and the formidable barrier remained unpassed until the year 1813, when the country was visited by a fearful drought; the land from the sea-coast to the base of the hills was burnt up; the secondary water-courses entirely failed, and the cattle, hemmed in on all sides, died in great numbers for want of pasturage. The colonists were in despair, when three enterprising individuals, Messrs, Blaxland, Wentworth, and Lawson, united in making one more attempt to find a pass over the Blue Mountain ranges. They ascended the mounthe Hawkesbury), and by keeping steadily in view the fall of the waters into the Warragumba, on the one side, and into the Grose on the other, which no previous explorer had

low cliffs at each extremity, and on the its intricate windings, eventually penetrated summit of this table land are several large to a distance of twenty-five geographical rocks, which look like the remains of pillars. miles, due west from the Nepean river to a Bernier island consists of sandy dunes, ar- terminating point in those mountains, whence ranged in right lines, lying south-east and the eyes of the enterprising adventurers were north-west—the direction of the prevailing laddened by the prospect of a grassy and winds. There are no trees or grass. Dorre well watered vale, extending apparently some is similar to Bernier, only the surface is miles to the westward. On their return, Mr. W. Evans, the assistant surveyor, was despatched by the same route, and the Downs of Bathurst, the river Macquarie, and the Lachlan were shortly afterwards discovered. In the following year a practicable line of I have now endeavoured to present a road was constructed, by convict labour, over precipitous ridges, some parts of which rise 3,400 feet above the level of the sea. In the winter of 1817, an expedition headed by captain Oxley, then surveyor-general, and including Allan Cunningham, was sent to trace the Lachlan. Its long and tortuous course, during which it was not found to receive a single tributary, was followed through a flat inhospitable country, beyond the westernmost range of hills, to an interior, a dead level, forming a chain of plains, which appeared alone bounded by the horizon, whose ample surface bore evident proofs of being, in seasons of continued rains, extensively inundated. Over these Australian steppes Captain Oxley expeditions; dwelling more especially on made his way, notwithstanding the slimy nature of their surface, and the distressed state of his horses, for about 100 miles to the westward of the last hill-like undulation of that part of the interior, when his progress was arrested, in 144° 30' E. long., by impassable morasses, the river having divided itself into several small mannels, and its waters having become perfectly stagnant and unfit for use. In 1818, Captain Oxley started to explore the Macquarie downwards from Wellington Valley, but his persevering research was again attended with disappointment, the river being traced to a low marshy interior, where the country became "perfectly level." and the flooded river eluded further pursuit by spreading its waters far and wide. this expanse of shoal water captain Oxley descended in a boat, amidst reeds of such height, that having totally lost sight of land and trees, he was compelled to return to his party, whom he had left encamped on Mount tains near the Grose River (a tributary of Harris, a detached hill on the river's bank, elevated about 200 feet above the plain of the neighbouring flats. It being at that time perfectly impossible to penetrate the apparently unbounded morass, captain Oxley, thought of doing, they maintained their po- unable to proceed in a westerly direction, sition on a main range, and notwithstanding determined to prosecute his discoveries easterly, in the parallel of 31° 15', in which ating, grassy, and well-watered country, latitude his examination of the river had and crossed two other streams, which they terminated. In his progress easterly, Liver- named the Ovens and the Goulburn. pool plains, and a hilly, picturesque, and well ength, having advanced nearly 400 miles bewatered country, were discovered. The exin 31° 30′ S. lat., and proceeded thence along vanced upwards of 500 miles beyond the it, and presenting the appalling prospect of a so harassing to their cattle. moving cataract, with an elevation of twenty paper in the Geographical Society's Journal, 1832).

year, Messrs. Hume and Hovell, two enternized territory and Bass' Straits. to penetrate, compelled them to follow an resume their original direction. In 36° S lat., the party discovered a fine stream travellers pursued their way over an undu the rainy seasons, catch, and for a while

ond the remotest settlements, they emerged pedition reached the coast at Port Macquarie, upon a sandy beach of the sea shore, conadered by Mr. Hume to be that of Western the shore to Port Jackson. In the course of Port, but which was, in reality, the northhis journeys in 1817-18, captain Oxley ad- eastern side of Port Phillip-half a degree to he westward of the point at which they Blue Mountains, and experienced one of the supposed themselves to have arrived. In peculiar dangers attendant on Australian ex- returning home, Messrs. Hume and Hovell plorations, namely, the rapid rush of water travelled considerably to the westward of from the mountains after heavy rains. In heir outwerd-bound track, and on a much some instances the river column advances lower level, avoiding entirely the broken, with terrific fury, sweeping every thing before hilly country which had previously proved

In 1827, an expedition was despatched to forty feet. Captain Oxley and his party under Allan Cunningham, to explore the were nearly overtaken by one of these inun-country between Hunter's River, 32° S. lat, dations, but were providentially saved by and Moreton Bay, in 27° S lat. Crossing being in the vicinity of a hill. Had he been the dividing range to the westward, he near the margin of a stream, or in one of the skirted the eastern side of Liverpool Plains, vast savannahs, nothing could have preserved bisected (what were afterwards found to be) the gallant officer and his companions from the tributaries of the Darling, and discodestruction. — (Vide Allan Cunningham's vered the extensive and valuable tracts of pastoral country now known as Darling Downs, Peel's, and Canning's Plains. In About this time (1819) the Murrumbidgee the following year, Mr Cunningham sucwas discovered, and minor excursions were ceeded in finding a practicable line of road immediately undertaken; but the fine open through the mountain chain between Morecountry watered by that river, and now ton Bay and Darling Downs, which the called Brisbane Downs, was not known until extent of intractable and difficult country 1823. Towards the close of the following between those plans and the Hunter rendered of great importance. Meanwhile, the prising colonists, resolved upon attempting extreme drought which had now (1828) conthe exploration of the extensive and unknown tinued upwards of three years, induced the tract of country situated between the colo- local government to attempt again to ascer-They tain the state of the interior. An exploring started from a stock station near Lake party, including Mr. Hume, under the direc-George, with the intention of pursuing a tion of captain Sturt, (the present colonial direct course to the south-west, expecting to secretary of South Australia,) proceeded to arrive at the coast near Western Point, but Mount Harris, on the Macquarie. Upon a range of mountains, connected with those reaching the summit of that eminence, a of the Murrumbidgee, through which, with prospect presented itself which formed a burdened cattle, they found it impossible striking contrast to that beheld by captain Oxley, from the same spot, ten years beforeentirely west course, until, having passed the extensive morass into which the surveyor-the meridian of 148°, they were enabled to general had descended in a boat, being now transformed into "a large and blasted plain," parched, by extreme heat, into deep and flowing with considerable rapidity among dangerous clefts. About twenty-eight miles the hills, which, from its depth and breadth below Mount Harris, the Macquarie was they had difficulty in fording. To this river found to terminate, having no longer a conthey gave the name of Hume, but it was tinuous bed, and the plains or steppes comsubsequently called the Murray, by captain mence; each of them having a lagoon-like Sturt, who explored its lower course. The channel, surrounded by high reeds which, in considerable distance. tained with the natives, who were suffering a northerly direction. sive to animal and vegetable life.

navigation was richly rewarded by the disa hundred miles, the expedition arrived at a third confluence formed in 34° S. lat, 141° E. long., by a river flowing from the northeast, which notwithstanding the freshness of its waters, captain Sturt considered could be "no other than the Darling." Still pursuing the course of the Murray, captain Sturt passed another of its tributaries, which he named the Landesay, and describes as a considerable stream, flowing in from the southeast. At length, after some intricate navigation, the forest-clad ridges which mark the eastern shore of the Gulf of St. Vincent became visible; the river in 139° 46' E. long. took a bend to the south, and was traced by of Lake Alexandrina or Victoria, which they traversed until stopped by the sand banks that separate it from the sea at Encounter Bay.

detain the spreading waters, until a slight ments of a bush-ranger named George Clarke. declivity, giving them a fresh impetus, they sentenced to death for cattle-stealing, who, arrive at a second channel, and thence at having for a considerable time taken refuge a third, until a considerable extent of country with the natives, had acquired a knowledge is laid under water—a space, fifty miles in of their language. He declared that he had length, and thirty miles in breadth, being himself twice followed the course of a very subject to be thus deluged. Captain Sturt large river, from the Liverpool Plains to the found another river (unfortunately for the sea-coast; and the acting governor, sir Paexplorers, of salt water) which he named the trick Lindesay, was induced to despatch an Darling, and whose course he traced for a expedition under the surveyor-general of the In this expedition colony, then major, now lieutenant-colonel friendly and frequent intercourse was main- Sir T. L. Mitchell, to examine the country in The result of the fearfully from a cutaneous disease, caused journey, although the convict's report proved by the badness of the water, and the inten-sity of the heat, which seemed alike oppres-Major Mitchell having discovered the Darling to be a fresh-water river in 29° S. In 1829, captain Sturt proceeded from lat., where it receives the Nammov, a fine Sydney to explore the Murrumbidgee, and stream watering an open pastoral country, having traced it down its right bank to but beyond this point, the murder of two 34° 25′ S. lat., 143° 57′ E. long., he there men by the aborigines, and the seizure of launched a boat which he had conveyed over- provisions, prevented the expedition from land, and another, which, by extraordinary exploring. In 1835, major T. L. Mitchell proenergy and perseverance, had been built on ceeded about 300 miles up the river Darling, the spot; from thence, advancing about in a direct line. He found the country in twelve miles to the westward, he found the general "unfit for any purpose," with the morasses into which the Lachlan had been exception of "a strip of land near the river;" traced, drained through a "large creek" into to the westward it resembled a desert. On the Murrumbidgee; still pursuing a westerly the return of the expedition, by the dried course, through a level and monotonous up channel of the Bogan, in whose ponds, country, a week's difficult and dangerous however, water was occasionally found, Mr. Richard Cunningham, having diverged from covery of the junction of the diminished his companions, fell into the hands of the waters of the Murrumbidgee with "a broad natives, by whom he was barbarously murand noble river," which he named the dered. In 1836, Sir Thomas Mitchell, with Murray, and commenced exploring; after a view of reaching the same point on the following it in a westerly direction for about Darling which he had quitted the previous year, followed (in order to avoid the hostile tribes he had then encountered,) the empty bed of the Lachlan to the Murrumbidgee, and thence to the Murray, which he traced to its junction with the river rightly supposed by captain Sturt to be the Darling, which latter stream he examined sufficiently to identify. He then turned to the south, and tracing the course of the Murray upwards, discovered between it and the sea a fine, open, uninhabited, and well-watered country, averaging in extent 400 miles from east to west, and 250 from north to south, which he named Australia Felix, and in which the flourishing colony of Port Phillip, or Victhe party to its entrance in the broad expanse toria, is now established. In 1837-8, lieutenant Grey (now governor of New Zealand,) and heutenant Lushington undertook the examination of the country about Prince In 1831, a new impetus was given to Regent's inlet, hoping to discover, in the internal exploration by the plausible state- vicinity of Dampier's Archipelago, some

river, by means of which they might be washed to pieces by the violent action of enabled to penetrate the interior. expedition has been already adverted to in the description of the coast line, beyond which insurmountable obstacles prevented region, in three different directions, Mr. their exploring for a greater distance than sixty miles.

In 1840, useful surveys were made by Mr. Tvers between Port Phillip and the river Glenelg, and by Mr. Dixon at Moreton Bay; and, in the same year, Gipp's Land was discovered by the able geologist and indefatigable explorer, count Strezelecki, to whom we are indebted for the physical description of New South Wales and Van Diemen's Land, a work which, to quote the

words of the author, "comprehends the

fruits of five years of continual labour, during

a tour of 7,000 miles on foot."

In June, 1840, Mr. Eyre, who had previously conducted several minor explorations was intrusted by the colonists with the guidance of an expedition destined to attempt afresh to penetrate the interior, the plan of the intended journey being—first, to examine Lake Torrens, and then to proceed, as far as possible, in a northerly direction. Lake Torrens was found by Mr. Eyre to be completely girded by an outer ridge of sand covered with salsolaceous plants, and with saline crusts, showing above the ground, at intervals, "the dry bed of the lake, coated completely over with a crust of salt, forming one unbroken sheet of pure white, and glittering brilliantly in the sun, but yielding to the foot, the bed of the lake below the sur face being composed of a soft mud" progress of the party in the intended direc tion was arrested, it being impossible either to cross the lake, from its boggy nature or travel along its shores, from "the total absence of all fresh water, grass, or wood whilst the very saline nature of the soil in the surrounding country, made even the rain-water salt, after lying an hour or two Mount Arden, close under the hills which form the continuation of Flinders' range they therefore proceeded to their terminatio. in 29° 20' S. lat., and reached a low and very level country, consisting of large ston; plains, destitute of water, grass, or timber, varied by many small, flat-topped elevations, from 50 to 300 feet in height, composed almost wholly of a chalk substance, coate over on the upper surface by stones, or sandy soil, and "presenting the appearance or having formed a table land that had been

Their water, and of which these fragments now emain."

Forcing his way through this dreary lyre ascertained that "the whole of the low country round the termination of Flinders' range was completely surrounded by Lake Torrens, which, commencing not far from he head of Spencer's Gulf, takes a circuitous course of fully 400 miles, of an apparent breadth of from twenty to thirty miles, following the sweep of Flinders' range, and almost encircling it in the form of a horsehoe." The extensive but disheartening prospect from Mount Serle first manifested to he enterprising party the impassable barrier by which they were hemmed in; but Mr. yre, considering this evidence insufficient, eft his party, and proceeded, accompanied by a native boy, for about ninety miles farther, to a "low, haycock-like peak," rising "among broken fragments of table ands," similar to those previously seen near the lake to the north-west, which, naming Mount Hopeless, he ascended, and found his previous conviction entirely confirmed. He then returned to Port Lincoln for supplies, and, rejoining the party, (whom he sent forward to Streaky Bay,) set out to follow the coast line in a westerly direction, hoping to arrive at a practicable country to the north. In this, however, he entirely failed, although he succeeded in penetrating, accompanied by a native boy and a man driving a dray laden with provisions, within twelve miles of the head of the Great Bight, through low, flat lands, or a succession of sandy ridges, densely covered with a brush of eucalyptus dumosa, salt-water, tea-tree, and other shrubs, with, here and there, a few isolated patches of open, grassy plains among the scrub, but no surface-water-not a watercourse or pool of any description. attempt cost the lives of the three best draught horses of the expedition, from fatigue and privation: but Mr. Eyre resolved to make another, taking with him only one of the native boys. He thus describes the sterile region they encountered :-

"Upon rounding the head of the bight, I met with a few friendly natives, who shewed me where both water and grass were to be procured, at the same time assuring me that inland there was neither fresh or salt water, hills, or timber, as far as they had ever been; that there was no more (either fresh water or grass) along the coast for ten of their days' journeys probably 100 miles) or where the first break takes place in the long and continuous line of cliffs which

extend so far to the westward of the head of the Great Bight. Upon reaching these cliffs, I felt much disappointed, as I had long looked forward to some considerable and important change in the character of the country. There was, however, nothing very remarkable in their appearance, nor did the features of the country around undergo any material change The cliffs themselves struck me as merely exhibiting the precipitous banks of an almost level country, of moderate elevation (300 or 400 feet), which the vio-lent lash of the whole of the Southern Ocean was always acting upon and undermining. Their rock formation consists of various strata, the upper crust or surface being an oolitic lime; below this is an indented concrete mixture of sand, soil, small pebbles, and shells; beneath this appear immense masses of a coarse greyish limestone, of which by far the greater portion of the cliffs are composed, and immediately below these again is a narrow stripe of a whitish or rather cream-coloured substance, lying in horizontal strata, but which the impracticable nature of the cliffs did not allow me to examine. After riding for forty-five miles along their summits, I was in no case able to descend; their brinks were perfectly steep and overhanging, and in many places enormous masses appeared severed by deep cracks from the main land, and requiring but a touch to plunge them into the abyss below. As far as I have yet been along these, I have met with no indication of any portion of them being composed of chalk. Immediately along their summits, and for a few hundred yards back, very numerous pieces of pure flint are lying loosely scattered upon the surface of the limestone. Back from the sea, as far as the eye could reach, the country was level and generally open, with some low prickly bushes and salsolaceous plants growing upon it; here and there patches of the gum scrub shewed themselves, among which a few small grassy openings were interspersed. The whole of this tract was thickly covered by small land shells, about the size of snall shells, and in some instances resembling them in shape. There were no sudden depressions or abrupt elevations anywhere; neither hills, trees, or water were to be observed, nor was there the least indication of improvement or change in the general character of this desolate and forbidding region.

Mr. Eyre now renounced all hope of penetrating the interior, and breaking up his party, resolved to proceed with one man (who had acted as overseer) and the native boys overland to King George's Sound, which, after extreme perils and fatigue, borne with a cheerful endurance beyond all praise, he succeeded in reaching, accompanied by one only of the boys, the others having deserted him, while the unfortunate overseer had perished by the hands of the natives.

Passing over the interesting excursions of Mr. Frome to Lake Torrens, Messrs. Russell the remarkable expedition conducted by captain Sturt, who left Adelaide in August, 1844, upwards. Instead of a mountain stream, the countered :-

Williorara proved to be a mere creek conveying the backwaters of the Darling to Lakes Cawndilla and Minandichi, and his hopes of gaining entrance to the north-west interior along its banks were completely The conduct of the natives at frustrated. this place was very gratifying, and appears to have been chiefly owing to the favourable impression made by Mr. Eyre during a previous journey up the Darling. "To those exertions," says captain Sturt, "more than to our own prudence, must we ascribe the peaceful manner in which we have passed through the tribes." The aborigines warned captain Sturt most emphatically against attempting to cross the formidable ranges bordering the interior; telling him that they were covered with sharp pointed stones and great rocks, by which if they escaped being crushed, and gained the low country, they there would all perish from the heat and the want of water; moreover, they would find no wood to light a fire with-no grass for the cattle. This appalling picture which (allowing for their exaggerated mode of expression) experience proved to be in many respects correct, did not deter the gallant band, and having succeeded in discovering a practicable pass, they descended into the sterile region, beyond which the most strenuous and continuous efforts failed in enabling them to penetrate. Speaking of the dreary heights by which they were encircled, captain Sturt says, "they seemed to extend in a N.N.W. and S.S.E. direction, forming semicircles, like bays, and having all the appearance of a Some prickly acadas in full coast-line. blossom, a tree resembling a banksia, and a new polygonum, were found on the western slope." The expedition encamped in a sheltered glen on the 27th January, 1845, in 29° 40′ 14" S. lat., 141° 30' E. long., and the tents were not again struck until the 14th of July following. They were fortunate in having here discovered an important creek, whose plentiful supply of water alone enabled them to remain so long in the heart of the desert. The sufferings endured by the whole party were excessive, and in July, Mr. Poole (the second in command) sank under them. The excursions made by captain Sturt in all directions, during his protracted sojourn in down the Condamine, and others, we arrive at this "weary land," are too numerous to be even briefly detailed, but the following extracts from his despatches may afford the and started up the Darling with a view of reader some idea of the dreary wilderness tracing the Williorara (Laidley's Ponds) itself, and the perils and fatigue therein en-

"We passed over a country of alternate sand hill' and flats, until I struck upon a creek, beyond which the country was more open, and more subject to floods; we crossed over extensive plains, subject to deep inundations, but soon again got on sandhills. From them we descended to a stony plain of bound-less extent, on which the horses left no track, and where no object was visible on the horizon from which to take bearings. Crossing these, we descended to flats, like a ploughed field, on which water had subsided, stretching to the north-east and southwest, farther than the range of vision, and without a blade of vegetation. From this we again ascended sand ridges, of most formidable description, and found the country to the west so bad where we attempted to penetrate in that direction, and surface water so scarce, that we were obliged to turn to the north at fifty miles, with only two small puddles to depend on. I struck a creek which I traced up sixty miles, when I got on a country of salt formation, covered with samphire, and other salsolaceous productions, with numbers of dry beds of lagoons, all white as snow, with salt Passing this, we once more found ourselves among sand ridges, perfectly insurmountable, so close that the base of one touched the base of another-the whole country sand. The sand hills were of a fiery red, and they ran for miles and miles, in parallel rows, with points like the vanishing points of an avenue. But there was neither grass nor water to be found, and after trying all points of the compass, I gave it up and returned to the depôt, after an absence of seven weeks, and a ride of 924 miles.

"The men were all knocked up, and the horses perfectly leg-weary; but I was dissatisfied with this journey, and there was but little time for hesitation Therefore, after giving the animals six days' rest. I left the camp, taking with me two men and nine weeks' provisions, my objects being to try to ente the tropics, to ascertain if there were any water between me and the north coast, or if the desert extends to the very tropics I went due north, and struck a most splendid creek at 123 miles from the depôt. Here I had a thunder-storm that lasted hal an hour, and left some surface water, dependent on which, I crossed it, and ran out 170 miles without finding a single channel for conveyance of water I dug five wells, but had httle hope of benefiting from them. I was at length brought up by a stony desert, that stretched before us in absolute bound Where there were sand-hills in it before the sand-hills were now covered with stone, similar to the plain itself. I was in the centre of a dark an adamantine sea, without any object by which to stee my course. I was forty-one miles advanced in this gloomy region, and fifty-two from water. My horses had already been one day without water, and I could not hope to reach the other water under a day and a-half, including part of the night; yet I hesitated to turn back. It was an irresistible influence that drovme back, certainly contrary to my own inclinations I was well-nigh too late. I lost three horses, bu that was of no consequence on such an occasion. got back to the creek, (Cooper's Creek) after having reached latitude 25° 45', and longitude 139° 13. "From the reek on which I was, I had seen hig

and broken ranges to the north-east, and I no determined on examining them and the creek. therefore west up the latter 120 miles, but I found that it was leading me away from the ranges, and altimately got to its termination, or rather head, i

ome extensive plains. The creek was as large as the Darling, and was flanked by a box-tree forest, in grassy land, to a considerable distance from its banks. Here I fell in with a numerous population, passing three or four small tribes every day; but the news of our kind treatment of them had spread through the ountry, and they evenced no alarm, but did all they sould to serve us. From this point I turned west-ward, and taking up a branch creek, went towards he ranges; but I got into a terrible country, and ound that the effects of refraction had deceived me with regard to the ranges, and that they were nothing but masses of sand or rock, 300 to 500 feet high. I saw that I was getting near the scene of the greatest turmoil, where the water passed over this dreary waste, and left the shivered fragments of mountains behind it. Here, again, water and grass failed me, and I was forced to abandon this season and country I had done all that I could do, and had run the risk of being altogether cut off; indeed, so near was it, that I drained the last drop of mud-for it was not water-out of a pool that four weeks before was 150 yards broad, and 200 to 300 I lost two horses, and regretted them very I reached the depôt, at length, having ridden 843 miles in five weeks, less three days

"I had been exposed for twelve weeks to an excessive heat, had had insufficient food, had drunk loathsome water, and at length my iron constitution, under disappointment, anxiety, and weakness, gave way The day I made the camp, I was eighteen hours on horseback, and when I dismounted, the spasmodic action of the muscles of my thighs was so violent as almost to throw me forward. I had, in truth, ridden all day in great pain. The next day, the scurvy, latent in me for eleven months, seized The muscles of my thighs contracted, and I was laid prostrate

The expedition on their return were joined by a relief party at the junction of the Wilhorara, and reached Adelaide on the 19th of January, 1846. In a brief summary of the information he had obtained, captain Sturt says :-

"The principal features of the interior are the sandy ridges or dunes, by which it is traversed from south to north, and the Great Stony Desert. That the whole region traversed was once submerged, there cannot, I think, be a doubt. Its salsolaceous productions, its sea-level, its want of trees of any size or growth, excepting on the banks of the creeks, sufficiently attest this, but whether the sandy ridges were thrown up simultaneously, or were successively formed by the joint effect of winds and a gradually retiring sea, or of winds alone, it is impossible to say When I first crossed the Stony Desert, it appeared to me to have been the bed of a former current; and I felt satisfied that that conclusion was just when I crossed it at another point more than a degree from the first, and noticed the strong proof it exhibited of waters having at one time or other swept over it with rreastable fury. Whether the Stony Desert continues to any distance I cannot say, but my opinion is that it does, and that, as the lowest part of the interior, it receives all the waters falling inwards from the coast. Whether those waters are gradually lost by evaporation, or that they are carried to some still undiscovered sea, remains to be proved; but as it is

cifficult for others to elucidate these things, I have thought myself called upon to throw every light I can on the probable character of the interior. All I can say is, that after having traversed a desert for 400 miles and failed to reach its northern limit, and after having found that it continued unaltered for four degrees of longitude, I cannot hope that it speedily closes in, either to the east or west.

adds :-

"When we first observed them, their general direction was NE. by N, but they gradually came round to, and settled at, eighteen degrees to the W. of N., or nearly N.N.W., and preserved that bearing with undeviating regularity for more than 300 miles. They occasionally ran for ninety miles without any break in them, and occurred in lines rising parallel to each other, at greater or less distances apart, and were divided by long flats"

During the weary months spent by captain Sturt and his brave party in this stony prison, an exploration of a very different character, and attended by very different results, was made by Dr. Leichardt, an intelligent and enterprising German, who, accompanied by seven persons, quitted Jimba, the farthest station on the Darling Downs, on the 1st of October, 1844, and after a toilsome and perilous journey of 1,800 miles' distance, during which above 3,000 miles were traversed in fourteen months, arrived at Port Essington with his party, excepting only the unfortunate Mr. Gilbert, who was killed by the natives when the expedition had nearly reached the north coast. The party followed the range of mountains which run nearly parallel to the east coast, until they reached the Gulf of Carpentaria, thence followed the coast to the westward, quitted it where it turns to the northward, and proceeded direct across the country. For the greater part of the journey they lived on dried beef, and such game as the country afforded: their sufferings and endurance were very great. In a series of lectures delivered by Dr. Leichardt in Sydney, he stated that in describing the country, according to its conformation and surface, the nature of its soil and vegetation, its supply of water, and its meteorological relations, the whole line of route might be divided very naturally into eight sections, each bearing a peculiar character. By this division it may be well to abide in the following account of the country.

The first section comprises the country between Darling Downs and Peak Range, forms either peaks, as Mount Aldis and in lat. 21° 30'.

Mount Nicholson, or the spine of large ranges, as Expedition Range. The sandstone ranges are remarkable for their numerous and steep gullies, and for their scrubby vegetation. Dr. Leichardt found the country, with a few exceptions, well watered, and almost daily thunder storms cooled the air With regard to the sandy dunes, he during the months of October, November, December, and January. Not only the high level land west of Darling Downs, which sloped almost imperceptibly to the southwest, but the valleys of the rivers and the sides of the mountains are covered with extensive scrub, principally composed of a species of acacia, which has received the name of bricklow (brigalow) from the squatters between the Severn and the Condamine. This shrub, or small tree, has a foliage of greyish-green colour, and grows so close, that it is impossible, or only with extreme difficulty, that a man on horseback can make his way through it. Along the hills which bound Palm-tree Creek and the Dawson at their junction, this scrub surrounds the Downs. which are frequently several miles in extent, and are rendered extremely picturesque by small copses of bricklow, fusanas, and bauhima scattered over them, and often clustered round stately bottle-trees, the shady retreat of kangaroos and wallobis. These downs and plains are covered by various grasses and herbs; but the great prevalence of vervain induced Dr. Leichardt to name them the Vervain Plains. Looking from an eminence at the north-west side of Expedition Range, Dr Leichardt describes the disheartening prospect of a valley nearly boundless to the eye, filled by an "almost uninterrupted sea of scrub," but the upper part of the Dawson-Palm-tree Creek, with its swampy lakes, its fine flats and noble palm-trees; part of Robinson's Creek, the Creek of Ruined Castles, and the country south-east of Expedition Range, he speaks of as so many places of rest and enjoyment, where the drooping hopes of the party brightened, and their The banks of the Macenergies revived. kenzie, so far as they were traversed during this expedition, partook of the scrubby character of the country, but Dr. Leichardt saw reason to believe that the scrub ceased a little lower down, while its large supply of water led him to suppose it formed a considerable stream towards the selections. The with the Dawson and the Mackenzie, and is natives, when questioned concerning the principally composed of sandstone, broken in course of the river, pointed to the north-east, several localities by basalt (whinstone) which and it probably disembogues at Broad Sound, The country south-east of

Erythrina Creek, was found to be for a considerable distance to the eastward flat and openly timbered; affording good pasturage and tolerably well provided with water at the foot of the range. Its latitude was 24° 50', but the course of its waters appeared to be directed either to Port Curtis or to Keppel Bay. Should a practicable communication with the sea-coast be discovered, there is little doubt of this district becoming valuable for pastoral purposes, and that even the good country of Castle Creek, Robinson's Creek, and Palm-tree Creek, will be accessible from this side.

The second section, comprising Peak Range, the Isaacks, and the Upper Suttor, presents a very different character from that just described. A long range of noble peaks, composed of dolomite, extends far to the W.N.W., and offers to the west and southwest a wide view over basaltic plains and open downs, alternating with low and openlywooded ridges. To the eastward of those peaks, basaltic ridges, with gently undulating outlines, narrow plains, and abrupt sandstone ranges, form numerous valleys, along which creeks descend to the eastward, winding in their lower course through an immense level country, and joining the Isaacks, which comes from the north-west, and forms the chief outlet of the waters to the sea. An open forest covers the whole district, with the exception of some narrow belts of scrub along the Isaacks, and on the sandstone ranges; and the most luxuriant grass clothes not only the black soil of the basaltic plains, but the stiff flats and the sandy bergs along the creeks and river. The supply of water was found to be so little in proportion to the number or size of the channels, that on the magnificent downs of Peak Range, Dr Leichardt and Mr. Calvert nearly perished for want of water. It was here, also, that they felt, for the last time, a hot wind from the west and south-west, coming from the yet unpenetrated interior. Water-holes existed, however, in the upper part of the eastern creeks, and swampy lagoons seemed to become numerous down the Isaacks, which is supposed to join the sea in Broad Sound, near the Mackenzie. The Upper Suttor partakes of the character of the Isaacks, from the Head of which it is far more accessible than from its own lower course. Numerous flocks of emus roam over the beautiful country at the head of the Isaacks in ascending the table-land, but limestone and the Suttor, and the immense tract was not met with by Dr. Leichardt) on the

Expedition Range, between Zamia Creek and which spreads out round the foot of Coxen's

The third section, comprising the Lower Suttor, the Burdekin, and the country between the Burdekin and the Lynd, is characternsed by its supply of running water, its primitive rocks, its limestone, its numerous ranges, and fine, open, well-grassed forest. Dr. Leichardt says, that several (comparatively) large tributaries, as the Cape, the Clarke, the Perry, drain, in all probability, extensive tracts of available country, while the elevation on the upper course of the Burdekin, renders the climate cooler than might be expected from the latitude. The basaltic table-land is exceedingly rich and beautiful. The open forest of narrow-leaved iron bark and box, on a sound and rather stony ground, alternates with plains of various extent, abundantly grassed, and watered b. numerous brooks and springs. Large and deep lagoons he scattered over the valley, or parallel to the river, whose course runs strongly over its sandy, pebbly, or rocky bed. But the approach to this interesting country is intercepted by a very mountainous region. and by deep creeks, over wluch more practicable roads will no doubt be found in the progress of colonisation. The basalt appears to have been broken by a still more recent eruption of lava, which expanding partly over it, has formed as wild and irregular fields of rock as ever covered the slopes of a volcano.

From the ridges and mountains which rose above the table land, the waters descend not only to the valley of the Burdekin in a southeast direction, but also to the north-east and The country along the to the westward. creeks is open and flat, so long as they pass over the table land; but when they descend their channels deepen, their banks become surrounded with steep ranges, and their beds are either formed by solid rock or covered with loose shingle and boulders, which render it impossible to travel within or along them.

The fourth section embraces the Lynd, the Mitchell, and the east coast of the Gulf of Carpentaria. The fall towards the level country, which forms a broad belt round the Gulf, is much more rapid than the ascent from the east coast; and the course of the Upper Lynd is much more mountainous and wild than that of the Upper Burdekin. same succession of rocks, granite, talchiste, porphyry, and sandstone, are observable in descending to the Gulf, as at the east coast

Essington, and may be considered of newer to the westward. The Lynd was found to be formation. supplied with water during its whole course. The country was openly timbered and well grassed; and at the lower part of the Lynd deep ponds were discovered, around which the pasture was particularly rich. The rivers within the tropics are almost all remarkable for the immense width of their beds, which are filled with sand, with the exception of those spots on which the naked rock crops out, and are often over-grown with small trees, whose number and size depend upon the frequency and strength of sweep down. instance, was found to be covered with trees, whilst the bed of the Mitchell was entirely free from them, and water-marks were obthat a large body of water flows down to the sea in, perhaps, unusually rainy seasons.

Large tracts of country on the east coast of the gulf are covered with box (a species of eucalyptus), and with a small tea-tree with broad lanceolate leaves. The finest and most available land lies along the creeks and rivers; the soil is there much lighter, and the blood-wood, the leguminous iron-bark, and the pandanus, grow well on it, forming an open forest. All the rivers of Australia have lines of holes and hollows parallel to them, which are generally filled by high floods, and keep the water much longer than the rivers themselves. Lagoons of this description are numerous along the Staaten, the Van Diemen, the Gilbert, and the Caron, and appear to be constantly resorted to by the natives. To the north of the Staaten, towards the sea-coast, there is a succession of plains, but the grass is generally stiff and If we compare the course of the rivers on the east coast of the Gulf of Carpentaria, it will be considered remarkable that the Lynd, which rises in the latitude of the head of the gulf from the table land of the York Peninsula, should go to the N.N.W direct course to the west, and disemboguing there is not only a very rapid fall in the

west side of York peninsula, though it ap- in or near the head of the gulf. A number peared extensively developed on the Burdekin. of coast rivers, of probably very short Basalt has broken through the various rocks, courses, the Nassau, the Staaten, the Van but the level country is formed of a clayey Diemen, Gilbert, and Caron, take their origin ironstone, intermixed with grains of quartz, from the moderately elevated country which which extends all round the Gulf to Port bounds the valley of the Lynd and Mitchell

The fifth section comprises the Plains of joined by several running creeks, and well Promise, so called by captain Stokes, which extend from the Flinders to the Nicholson, and are drained by the tributaries of three large salt-water rivers or creeks, the most and parallel to the Mitchell, very large and westerly of which is the Albert of Stokes, and the Maet Suyker of the Dutch navigators. These plains Dr. Leichardt found covered with various tender grasses and herbs, interspersed with a few straggling trees The narrow valleys of the creeks were filled with open scrub, formed by a small tree, whose fresh-cut wood has the odour of raspberry jam.

The sixth section of Dr. Leichardt's journey those volumes of water which occasionally between the Nicholson and the Roper, is That of the Upper Lynd, for remarkable for the number of large, saltwater rivers, the density of its tea-tree scrubs, and the extent of its stringy-bark forests. Here, again, are hills and ranges, served above the level of the bed-showing while pebbles of granite and porphyry indicate that the great arc of high land which sweeps round the head of the Gulf of Carpentaria approaches the sea-coast. The Van Alphen, the Abel Tasman, the Robinson, the Macarthur, and the Limnen Bight River, form broad channels of water, and occasionally afford magnificent prospects, especially cheering to eyes wearied by the monotony of the dense scrub.

The seventh section lies between the Roper and the high land of Arnhem's peninsula. The Roper is a large fresh-water river, fed by a great number of running creeks and brooks, all closely fringed by belts of pandanus. Almost the whole country along the river is open, well grassed, and available for depasturing purposes. At its upper course fine plains, bound by sandstone ridges, and diversified by pandanus creeks, form an extremely pleasing landscape. The high land is covered with an open, stringy-bark forest on a sandy soil; but its level is frequently interrupted by steep rocky sandstone hills and ridges, at the foot of which tea-tree swamps, with a peaty soil, form frequently the head of creeks. The fall of the high land of York peninsula is more sudden to and belong to a system of waters which joins the westward; the same is the case, in a the sea in 15° S. lat., instead of taking a still higher degree, in Arnhem's Land; for creeks, but there are precipices from 500 to 800 feet high, bordering the valley of the South Alligator River, over which numerous cascades rush down to join their waters with those of that river. It is remarkable, that the only slope which allowed the explorers to descend into the valley was formed of granite, whereas the whole of Arnhem's Land, and the ranges of the Roper, are composed of sandstone, which, near the divisions of the waters of the Gulf of Carpentarna and the north-west coast, has been broken through by basalt.

The eighth, and last section comprises the two Alligator rivers, and the Coburg peninsula. Its leading features are large swampy lagoons, extensive plains at the lower part of their course, densely-wooded ironstone ridges, and a great number of creeks in the Coburg peninsula, with limited flats of light alluvial soil, richly clothed with herbs and grasses during and immediately after the ramy swamps, called "Mariars" by the natives, before they are lost in the mangrove thicket which covers their junction with the sea.

Concerning the capabilities of the country whose leading features have been above described, Dr. Leichardt thus expresses himself:-

"To the question of how far this country is available for colonization, I would reply—the greatest part is fit for pastoral purposes, excepting only the scrubs of the east coast of Australia, the mountain gorges of the Upper Lynd, and the tea-tree scrubs of the west coast of the Gulf of Carpentaria But even here broad belts of fine country extend along both sides of the larger rivers, and will very probably be found quite as good as the country of the Roper Horses and cattle will do well over the whole extent, particularly at Expedition Range, along the Isaacks, the Burdekin, the east coast of the gulf, and on the plains at its head. The rapid increase of the buffaloes on the Coburg peninsula, and the excellent condition of the herd of cattle which they keep at Port Essington, show that the north-west coast of Australia is no less favourable for the development of animal life The elevation of Peak Range, and of the table land of the Burdekin, leads me to believe that these regions are fit for sheep. I am not sufficiently acquainted with the cultivation of tropical plants to give a decided opinion, but there is such a variety of soil, of aspect, and of elevation, that I feel convinced tropical plants will grow freely where sufficient moisture exists. The cotton, the indigo, the cocos-nut, the banana, the arrow-root, the sweet potato, the bread-fruit tree, the jack-fruit, the soursop, the pine-apple, the mango, and mangostine grow well in Port Essington; and captain Macarthur assured me that, according to the statement of the Malays, who had examined the swamps west of the settlement, they would do excellently for growing rice. The large plains of the Alligator rivers would suit equally well, and to an almost unlimited extent."

A third very important exploration was undertaken during the absence of captain Sturt and Dr. Leichardt. The surveyorgeneral, Sir T. L. Mitchell (whose former journeys have been briefly noticed), started from Sydney with a well-equipped expedition. n December 1845, one chief object being "the discovery of a good practical line of road to the nearest part of the Indian Ocean to the westward of Torres Straits, toward the Gulf of Carpentaria." The season was unpropitious by reason of great drought, and the intended route by the Bogan was found to be impracticable, from the scarcity of water in its channel. The intense heat killed all the Kangaroo dogs, most of the party were afflicted with ophthalmia, and the draught oxen were so much distressed that some of them dropped dead on the journey. A fortnight's halt was made at the ponds of Cannonba, between the Bogan and the Macquarie, during which time some refreshing season. These creeks generally enlarge into rain fell, and from thence the expedition journeyed along the left bank of the Macquarie, and skirting the western limits of the marshes, proceeded to its junction with the Darling in 147° 33' E. long., 30° 6' 11" While tracing the attenuated channel of the Macquarie among the reeds, where water, though scarce, was still to be found in ponds, Sir Thomas was startled by the report that " a flood was coming down from the Turon mountains, but that it travelled slowly and would not arrive until the following evening." At the time stated, a murmuring sound, like that of a distant waterfall, was heard, mingled with occasional cracks, as of breaking timber; very gradually the noise increased, until at length the flood burst into sight, glittering in the moonlight, and filling the dark and dry bed of the river with water brought a distance of 400 miles Sir Thomas, after a graphic description of this singular spectacle, adds— "We thought then that there was an end of all our troubles, but in a few days after, in the same channel, we were just as badly off for water; that water had gone to fill thousands of lagoons, and never reached the channel of that river to which it was a mere tributary." Crossing the Darling, the party succeeded in reaching the swamp in which the Narran terminates; tracing that stream upwards (or northwards) to its junction with the Balonne, in 148° 25' E. long., they found it full of water and increasing in size and importance as it was ascended, with grass or the very best description on its banks. Pani-

cum lavinode (barley grass), the seeds of latter being connected by a low neck of garoo grass) grew on the plains in the open its source. forests.

thickly peopled with friendly natives, who assisted the party in finding a way for the guided them across the Culgoa. "From thence," says sir Thomas-

"I travelled to the upper Balonne, with the intention of proceeding northward along its right bank That great river is there at its maximum, and is only inferior to the Murray in breadth and depth. Lower down it separates into various channels—the first branch being the Culgoa, falling into the Darling, about thirty miles above Fort Bourke—the remainder, or minor Balonne, again spreads its waters into the Narran, the Bokhara, the Ballandoola, and the Biree, the latter three, I believe, again unite, and fall into the Darling forty or fifty miles above Fort Bourke Tracing the Balonne upwards, I found the country on its banks well covered with good grass, and we encountered only a small proportion of scrub. Some of the reaches were so broad, deep, and extensive, that I could not suppose this river contained only the waters of the Condamine, and I therefore expected to meet with some tributary from the north-west On arriving at a natural bridge of rock, in 148'46'45 E., 28° 2' S, I selected a position commanding access to the other bank, and formed there a depôt, with a small party, examined the country to the north-west. I first made a reconnoissance north-west by compass, and found in that direction, at the end of thirty miles, a poor, sandy, unpromising country"

Returning to the depôt camp, Sir Thomas proceeded up the river, and followed the Cogoon, a small tributary from the northwest, through a beautiful country, until it led him among some hills, from whence he was enabled to form more extensive and accurate surveys. From Mount Abundance, a double-topped hill, in 148° 40' E. long., 26° 39′ 30″ S. lat., so named from the abundance of good pasturage around it, Sir Thomas looked on the finest country he had ever beheld in a primæval state. A champagne region, spotted with wood, stretching as far as the eye or even the telescope could reach, intersected by river lines from the north. A noble mountain mass arose in the midst, sufficiently elongated in a south-west and north-east direction to deserve the name of a range in about 142° 2′ E. long., 26° 23′ 32″ To the mountains were given the name of the Grafton Range, and to the surrounding country that of Fitgrey Downs. The sources of the Cogoon were found to arise between the three isolated mountains "I again found a chain of volcanic summits connected of Abundance, Bindyego, and Bindango, the

which, bruised between stones and baked grassy downs, with small knolls of trapinto cakes, constitutes the chief food of the rock, to one of the masses of coast range natives; and Anthistirium Australis (Kan- in which the Balonne appeared to have Northward from Bindango, other waters fall to the north-west, and in The banks of the Balonne minor seemed the remote distance one gap was perceived in a tabular sort of rocky country, through which it was hoped the water course would carts among the numerous lagoons, and lead; but in following it down, this promising little river (the "Amby" of the natives) turned to the southward of west. The gap, however, formed a convenient pass, and was moreover a very remarkable opening, containing several conical hills, on which many strange shrubs were growing; one of the hills was composed of basalt.

The country through which the opening led consisted in general of sandstone; southward and back from the pass much good open forest land appeared around. In the country beyond, some smoke which arose in the woods excited the hopes of the surveyorgeneral, and following in the direction thus indicated, he came "upon a river fully as large as the Darling," called by the natives the "Maranoa" To the westward and northward of the sandstone ranges, lay a well-diversified country, with abundance of grass, some water, and finely-shaped hills, in groups, and also detached cones. the river leaving that lower country, forced its way among rocky cliffs, where its course was traceable by the open ground along its banks, to be steadily south-west, receiving, of course, the river "Amby," which had turned also in the same direction. Thomas traced the Maranoa upwards, and found that two tributaries joined it from the west, but they arose in subordinate sandstone ridges, and contained little water, while the main channel was dry and full of sand, water being less easily found there than in the sandstone gullies by which it was there From Mount Owen (a cone in the range before mentioned,) the main channel of the Maranoa is visible coming through this range from mountains beyond it. Of these mountains the most lofty part, being remarkable for its extreme flatness, was named Buckland's Table Land. count given by Sir Thomas in his despatches, of the discovery of valuable land made at this period of the expedition, is very interest-

with a mass of table land which I named (finding

none of the Aborigines there,) Hope's Table Land. Between it and the still higher range towards the coast lay a very broken sandstone country, which was difficult to pass through with carts; but when I had at length discovered, beyond Hope's Table Land, the head of another promising river falling to the northwest, we soon found a way, through which my inde-fatigable party led the carts and bullock-team without the least damage. Mount P. P. King, a pointed vol-canic cone, in long. 147° 37′ 40″ E, lat. 25° 9′ 10″ S, is near the head of that river, which we followed down until it turned, as all the others had done, to the south-west, and I was again obliged to halt, and take a long ride to the northward, where another chain of summits extended westward nearly under the 25th parallel of latitude. Beyond that range, whose summits are all of trap rock, I found deep sandstone gullies; and in following down one of these, I reached an extensive grassy valley, which terminated on a reedy lake in a more open country The lake was supplied by springs arising in a swamp at the gorge of the valley which supported a flowing stream of the purest water This stream spread into the extensive lake, and, to my surprise, was absorbed by it, at least so as to escape through some subterraneous outlet, for the channel of the river in which the lake terminated The country is adorned by hills of the most romantic form, presenting ontlines which surpass in picturesque beauty the fairest creations of the painter Several pyramids mark the spot where the springs were first discovered. Lower down appear, over the woods, isolated rocks, resembling ruined castles, temples, and Gothic cathedrals Others have apertures through them, and the trees being also very varied and graceful in form, and rich in colour, contribute so much to the beauty of the scenery that I have been induced to distinguish the river and lake by the name of a painter. Returning to the party, we soon brought the carts and dray down the sandstone cliffs to the banks of the Salvator, and pursued that river downwards until I discovered, which was soon obvious, that its course turned to the eastward of north, consequently that we were upon a river falling to the eastern We lost two days in vainly endeavouring to pass to the westward through dense brigalow scrub but on a ride which I next took north-westward, I was more successful, for, after forcing my way through ten miles of scrub, I came to what seemed to me the finest region on earth plains and downs of nich black mould, on which grew in profusion the Panicum lævinode grass, and which was finely interspersed with lines of wood which grew in the hollows, and marked the courses of streams; columns of smoke showed that the country was too good to be left uninhabited and, in fact, on approaching the nearest river channel I found it full of water. This river I named the Claude, in honour of the painter of quiet pastoral scenery, and to the downs and plains, so favourable to flocks and herds, I gave the name of the Mantuan Downs and Plains. I returned to the party on the Salvator, crossed that river with it in lat. 24°31′47″ S and conducted it, cutting our way through ten miles of scrub, to the banks of the Claude. These tw rivers join at a considerable distance lower down, an form the Nogoa-a river which, according to the natives, pursues a north-east course to the sea, and therefore, probably, has its estuary on the shores of in the vicinity of Broad Sound. We were obliged to make a bridge for the passage of our carts across the Claude, and then we crossed a plain, where grass grew almost as thickly as in Australia Felix; ther

nother stream, also full of water, was crossed, and e ascended undulating downs on which fragments of ssil wood were abundant, in a very rich soil. Beond these (the Mantuan Downs) a range of broken ummits appeared, which we found to be the upper part of a very difficult sandstone country, wherein the beds of the gullies were at a much lower level than he downs and plains."

Westward of these the country was quite mpervious, the party therefore descended by

an open gently declining valley to the head of a creek, falling north-west, but Balmy Creek so called from the fragrant shrubs growing here) soon led them to the heart of the andstone gullies, and they were glad to find favourable outlet to the open country by a pass, in the gorge of which stood a rock so much resembling a tower, that it was difficult o believe it the work of nature. The glen hus entered (Glan Turret) was very extensive, contained abundance of good grass, and was bounded on the east and west by very roken-topped ranges; to the northward the view was over a more distant country. Ascending the most northerly summit of the range on the west, which he named Mount Mudge, the surveyor-general perceived that the course of the river Belyando, which they had followed for a considerable distance in the hope of its leading to the Gulf of Carpentaria, turned at length from the north-west, to the north and north-east, and was, in fact, the river noted by Dr Leichardt as joining the Suttor in 21° 6' S lat., the party were, therefore, compelled to retrace their steps to their first camp on the Belyando, in 147° 17' E. long, 2° S. lat From three remarkable points of the range just behind, Sir Thomas resolved on renewing his search for a river running in the desired direction three volcanic cones, called Mounts Pluto. Hutton, and Playfair, form an obtuse angled triangle. Crossing a range of clay ironstone, covered with dense scrub, which extends northwards from Mount Playfair, he discovered the sources of the Warrego, a river flowing south-west, and on the western side followed down the head of another river, falling north-west, which he called the Nive, but which subsequently took a southerly and at length even an easterly direction. turning disappointed, but not disheartened, Sir Thomas hastened to a gap he had noticed in a westernly ridge, connected with that to the northward, and ascending a naked rock to the west side of it, beheld in the midst of open plains a line of trees marking the line of a river in a north-west direction, as far as For ten successive days the eye could reach.

and found it, in some places, forming broad several miles apart: the whole country being better watered than "any other portion of Australia" he had previously beheld, by numerous tributanes arising in the downs.

"The soil," says Sir Thomas, "consists of rich clay, and the hollows give birth to water-courses, in most of which water was abundant I found, at length, that I might travel in any direction and find water at hand, without having to seek the river, except when I wished to ascertain its general course and observe its character. The grass consists of panicum and several new sorts, one of which springs green from the old stem The plains were verdant; indeed the luxuriant pasturage surpassed in quality, as it did in extent, anything of the kind I had ever seen. The myall tree and salt bush (Acacia pendula, and salsalæ) are also there. New birds and new plants marked this out as an essentially different region from any I had previously explored That the river is the most important of Australia, increasing as it does by successive tributaries, and not a mere product of distant ranges, admits of no dispute, and the downs and plains of Central Australia, through which it flows, seem sufficient to supply the whole world with animal food. The natives are few and moffensive."

He adds-

"I crossed the river at the lowest point I reached, in a great southern bend, in 144° 34' E long, 24' 14' S lat, and from rising ground beyond the left bank, I could trace its downward course far to the northward. I saw no callitris (pine of the colonists) in all that country, but a range, showing sandstone cliffs, appeared to the southward, in about 145° E long, 24° 30′ S lat The country to the northward of the river is, upon the whole, the best, yet, in riding ninety miles due east from where I crossed the southern bend, I found plenty of water and excellent grass. a red gravel there approaches the river, throwing it off to the northward. Ranges extending NNW were occasionally visible from the country to the

The diminution of supplies compelled the surveyor-general to return to the camp on the Maranoa river, where the remainder of his party had been stationed for eighteen weeks, and from thence the expedition returned to Sydney, consuming the last of their provisions on the day of their arrival. The fertile and available country thus disstrange contrarieties partly accounted for by water-course; the country on either side

the delighted explorer pursued, on horseback, the gradual rising of the land, that in prothe course of the river, which he named the ceeding towards the tropics the air becomes Victoria, in honour of our gracious sovereign, cooler. The coast range breaks off in the parallel of 25° at the lofty plateau of Buckand important reaches, in others spreading land's Table Land, and Sir Thomas Mitchell into four or five branches, some of them considers easy access with this fine country might be found from the good harbour of Port Bowen, which has been skilfully surveyed by Captain Blackwood, R.N. distance between Port Bowen and the head of the Salvator is 220 miles.

On the return of the expedition to Sydney, the local government despatched assistantsurveyor Kennedy to follow up the discoveries of the surveyor-general, and follow the supposed course of the Victoria River to the Gulf of Carpentaria. After an arduous journey, Mr. Kennedy traced the Victoria flowing to the westward and then to the southward, for more than one hundred miles, until a total failure of water and vegetation compelled him to abandon further research in 26° 15′ 9″ S. lat., 142° 20′ E. long. observations led him to believe the Victoria identical with "Cooper's Creek," traced by captain Sturt to 27° 56' S. lat., 142° E. long., and then coming from the north-east. 25° 9′ 30" S. lat., and about 143° 16' E. long., Mr. Kennedy found a considerable river joining the Victoria from the north-east, which he named Thompson's River. It is possible that Mr. Kennedy may have erred in taking a wrong branch or tributary of the Victoria for the main stream, and thus been led too far away to the westward and southward, until he reached the margin of Sturt's desert. Returning to the colony, he passed through a fine country between the parallels of 25° 55' and 28° 15', and the meridians of 145° 28' and 146° 44', watered by the Warrego River, which he describes as containing "deep reaches of water, occurring at short distances, and increasing in proximity as he advanced. This mexhaustible supply of water is bounded by open forests for the first forty miles, and from thence by extensive plains thickly covered with the most luxuriant pasture, and broken here and there by clumps of acacia pendula. I have never seen in the colony any country which covered is roughly estimated by Sir Thomas surpasses it, and but very little to equal it, Mitchell at 160,000 square miles, the soil on either as being adapted for the depasturing the banks of the Victoria being a rich black of cattle, or any kind of stock." He folmould, producing spontaneously all the best lowed the Warrego to about 28° 25' S. lat., grasses known in New South Wales, and 140° 28' E. long. It there divided into two five new kinds of excellent quality. The equal channels, which shortly reunite, but climate was salubrious, for it is one of the only to form the insignificant dry bed of a being flat, and subject to inundation, void of grass, but thickly covered by a species of small grass and acacia. Mr. Kennedy here left the Warrego, being unable to procure water in either channel of the river, even by sinking wells, "once more disgusted and disappointed," he emphatically states, " as all travellers will ever be who put their trust in the interior rivers of Australia."

Mr. Kennedy was subsequently despatched by the local government on another exploratory journey—but has never returned to the colony, and is supposed to have perished in an encounter with the natives.

which some accounts are daily (January 1850) expected. On the return of Dr. Leichardt from Port Essington, the colonists of New South Wales raised by subscription about two thousand pounds in token of their grateful sense of his important discoveries, partly with this fund, and partly by the aid of other contributions, the enterprising traveller fitted out another expedition, and, accompanied by eight persons, started from Moreton Bay in March, 1848, intending to attempt to reach Swan River by crossing the continent from east to west. The journey he supposed would occupy two years, and probably necessitate the traversing of more than 5,000 miles. Should Dr. Leichardt succeed in his mentorious attempt, the mysterious interior of Australia will at length be penetrated, and the question solved on which two leading authorities so widely differ-Mr. Eyre having steadfastly adhered to the belief that no inland sea exists, and captain Sturt still giving it as his opinion that more than one will eventually be discovered.

The foregoing brief account of a few o the most remarkable explorations in Aus tralia, will, it is hoped, convey to the mind of the general reader, some idea of the vas and varied regions so newly trodden by the foot of civilised man In each Australian colony, a spirit of enterprise and honourable emulation has been manifested and sustained by the colonists, which is abundantly attested by the large amount of territory, not only examined, but absolutely occupied, in the teeth of difficulties which appeared well-nigl insurmountable. I do not attempt to enume rate the long list of Australian explorers whose strenuous exertions have been productive o permanent benefit to their countrymen, and reflected honour on the land of their birth for in doing so I might possibly omit many

ell deserving most honourable mention, but cannot close this section without paying a ribute of esteem to the gallant officers of he army and navy, who turning, as it were, 'their swords into pruning hooks," have yet ncountered dangers quite equalling those of the battle-field, and won unfading laurels The melancholy fate of three individuals is too intimately connected with this subject to be passed over in silence, namely, that of captain Barker, who was speared by the natives while engaged in the cause of georaphical research on the south coast; of Mr Darke, who fell by the hands of the An exploration is now in progress, of aborigines, in 1844; and lastly of a promising youth, the son of Sir Thomas Mitchell, who perished for want of medical aid, while surveying in winter the Australian Alps.

Tides —The tidal wave strikes the whole

coast of Australia, from Sydney to Torres Strait, nearly at the same time, viz, at eight o'clock at the full and change of moon. At ape Palmerston, the rise is from twenty-four to thirty feet, while at Port Bowen to the south, and at Port Molle to the north, the rise is only sixteen feet. At Port Bowen the flood tide comes from the south, while at Broad Sound and to the north, it comes from the On the north-west coast of Australia, north about Cambridge Gulf and Buccaneer's Archipelago, there is also a limited space where the rise and fall of tide is greater than on the adjacent coasts. At Rockingham Bay, Endeavour River, and about Palm Island, there is no tide at all. At Hanover Bay, on the west coast, the highest tides occur on the fourth day of the full or change of the moon, when they attain a maximum height of twenty-five feet, while during the neaps, the difference between high and low water does not sometimes exceed twenty-four inches Captain Stokes says that the tides in the head of the Gulf of Carpentaria appear to be a compound of many others, obliterating the common daily difference, and producing only The direction one tide in twenty-four hours of the flood stream commences at SS.E., changing gradually to S.S.W. as it terminates; that of the ebb changes from N.W. to N.N.E The strength of each is from a quarter to one knot; rise at springs, nine to twelve feet; at neaps, three to eight feet. At the entrance of Van Diemen's Inlet, in the Gulf of Carpentaria, it is high water at the full and change of the moon at a quarter to seven, but in the upper part the tides are three hours and a quarter later. The length of both flood and ebb is twelve hours, and the direction of the flood being from the tropics and the east trade wind, and trending strait it is affected by the monsoons.

These winds tend declination of the sun. more to the southward as the latitude increases, and extend farthest into each hemiextra-tropical wind is much more regular the west coast. than in the northern, but in both the preto the trade; hence on the south and west easterly only during the latter end of summer coasts of New Holland, the south-west wind is the most constant, and it produces an easterly current in the ocean which is felt

along the south shore.*

The and and heated surface which appears to form the interior of Australia, attracts the wind from the north coast, and it blows to the south and east in hot and violent gusts, the thermometer reaching frequently 120° Fahr. I have myself marked the thermometer at 110° Fahr. on Christmas eve in New South Wales. In the winter season, when the land south coast. There is no periodical recurvariations incident to the torrid zone com-The south-east trade wind is tolerably regular for three-fourths of the year, and the sea and land breezes steady. From Torres Strait to Cape Van Diemen, the monsoons are felt in the open channel; the southeast wind blows from March or April to November; weather generally fine during the remainder of the year, when the sun is nearly vertical. The north-west monsoon is accompanied by heat, thunder, lightning, and heavy rains. The great size and peculiar configuration of the Gulf of Carpentaria has considerable influence; the south-east monsoon, which is a sea wind, brings the rainy season; the north-west, which is a land wind, brings dry weather.

The north-west coast lying between the · Picture of Australia.

northward, following the eastern shore of the to the southward, has not so much of a There are currents from Breaksea tropical character, and the east monsoon Spit to Torres Straits; from thence it sets which begins in April, and blows in gusts, to the north-west, but after passing the seldom lasts longer than the end of June. The monsoon in summer (December and Winds.—In the tropics the real motion of January), blows from the west, varying a the earth in an opposite direction to the appoint or two to the north or to the south, parent motion of the vertical sun westward, In February the west wind dies away; the produces a westerly motion both in the tides weather becomes variable, with squalls and of the sea and in the atmosphere; hence the heavy rain. Currents follow the wind on origin of the "trade winds," which extend the west coast; the general winds are from beyond the tropics into both hemispheres, between the north-west and south, but and shift northerly and southerly with the generally toward the west, and near Cape Leeuwin chiefly from the south-west-in summer, often from the north-west during the night. The ocean current divides into sphere during its summer. A great portion two parts at Cape Leeuwin; one sets east of the southern hemisphere being sea, the along the south coast, the other north along

On the south coast the wind is from the vailing wind blows in an opposite direction west during the greater part of the year, and in January, February, and March; it is then felt most at projections of the coast, viz., near Wilson's Promontory and King George's

Sound.

The land wind on the north-west coast has the same dry and parching character as in New South Wales; when Captain King rounded the North-west Cape in February, and got under the lee of the land, the air which had previously been of a pleasant temperature, became so hot as to produce a scorching sensation. Towards the middle of begins to cool, west winds prevail on the the north-west coast, he found the temperature at noon in the shade 120° Fahr., and on rence of dry and ramy seasons between Cape land ten degrees higher. The north-west Howe and the tropic of Capricorn, where the and north coasts partake of the unhealthiness of a tropical region, the atmosphere being infected by vegetable miasma. The intertropical parts of the east coast, possessing high and diversified land, not so subject to be flooded, and with regular monsoons, appears more salubrious. The general direction of the winds on the west and south-west, south and south-east coasts being from the sea, the temperature in summer is delightful. On the Blue Mountains in New South Wales, and on the Australian Alps in Port Phillip, snow falls in winter, and it freezes there for several months, generally in June, July, and August. Hail falls in large, irregular masses during the summer.

CLIMATE.—Excepting on the marshy shores of the north-west coasts of Australia, the climate of the whole territory is remarkably salubrious; this is proved by the good health of the Europeans engaged in exploring experound the Gulf of Carpentaria, are beds have been most laboriously employed for Captain Sturt found similar substrata in months, exposed to a burning sun by day. tree or ledge of rock, and with very imper-Yet among fect and scanty nutriment. many hundreds thus occupied, there is in the long list of sufferings from various causes no record of any one dying from fever or other palludial influences. When Dr. Leichardt proceeded on his perilous journey to the north-west, he found the land become more elevated and the climate cooler. He remarks. "The bracing nature of the south breeze at night had a very beneficial influence on our constitutions, and the regular interchange of land and sea breeze contributes everywhere to render a climate healthy" Captains Grey and Lushington on the north- rather than volcanic origin, but different west coast, after twelve weeks' toilsome exploration, did not suffer from climate disease Neither did captain Stokes and his gallant dry by the receding of the nighty deep from companions experience illness during their the north to the south pole, some powerful surveys of the Victoria, Albert, Adelaide, submarine action, (as in the case of Chili, and and other rivers in tropical Australia, although absent for weeks among mangrove crust of our globe, in this spot, above the shores, which I know from dear-bought experience to have been so destructive to the health of those engaged in our boat river surveys in Africa, where not unfrequently the entire crew of a well-tilled pinnace have Book), but vast quantities of marine shells perished from exposure to river exhalations have been found, at various degrees of elevaduring a single night.

important section are necessarily scanty, and insufficient to afford the materials for a general description Mr Jukes says, that their original relative situation evidently the mountain chain on the east coast has having never undergone any change an axis of granite, with occasional large Berry, who devoted considerable attention masses of greenstone, basalt, and other to the subject, while admitting that the beds igneous rocks by thick beds of palæozoic formations, chiefly tends that this may arise from a gentle sandstone, but also containing limestone and yielding of the substrata coal. In the north portions of the chain, Dr. Leichardt found the same formations and especially trap and granite, near the which incline at a considerable angle to the Burdekin River. At Port Phillip there are similar igneous rocks, and on the coast tertiary formations resting on the edges of ceous, and in this state it is generally found upturned palæozoic beds. In Western Australia, the Darling range consists of granite very decomposable. Among the coal meabelow, covered by metamorphic rocks, and sures, thin beds of what may be called calbetween it and the sea is a plain, composed careous sandstone are occasionally met with. of tertiary beds. In Northern Australia, there In fact, according to Mr Berry, the mounis a great sandstone plateau, rising to 1,800 tain ranges on the east coast of Australia, feet above the sea, and probably of palæozoic from Bass' Straits to 19° S. lat., consist, age; whilst on the immediate shore, and with few exceptions, of vast conglomerations

ditions even within the tropics, where they supposed to belong to the tertiary period. the central desert It is probable these without any shelter by night but that of a tertiary rocks are continuous throughout the centre of the island, and during the tertiary period, all this portion of the country was submerged, whilst the high lands on the coast rose like groups of islands from the shallow sea. Captain Sturt supposes Australia to have been formerly an archipelago of islands; and Mr. Gould is of opinion. that at some remote period it must have been divided into at least two portions, since, with few exceptions, he found the species of birds inhabiting the same latitudes of its east and west divisions, differing

from, but representing each other.

This immense island appears of diluvian causes may have operated conjointly in its formation; after having been left partially other parts of America,) may have raised the ocean level, either at one shock, or by a series of successive shocks. But one comparatively recent active volcano is known, viz -Mount Wingen (see New South Wales tion above the sea, in some places imbedded GEOLOGY.—Facts on this interesting and in sandstone On the east coast of Australia, this sandstone strata lies in beds, one on the top of another, in the most regular manner, It is flanked on both sides are not invariably strictly horizontal, con-Some of these beds, though perfectly horizontal and of regular thickness, consist of thin aminæ, north-east. This sandstone is principally siliceous; sometimes, indeed, it is argillaover coal, in which situation it is soft and

of sandstone; and he asserts, that there is nearly resembling them, both in the fossils miles, i. e to the parallel of 14° S. lat. Here the sandstone again predominates, the land gradually dipping till it loses itself in the sea to the north, whence coral reefs extend as analysis of captain King's valuable survey, says, that between the parallels of 28° and 12° or 13°, on the east coast, grante is found; at Capes Cleveland and Grafton, Endeavour River, Lizard Island, and at Clark's Island, on the north-west of the rocky mass which forms Cape Melville, while rocks of the trap formation have been noticed, in three detached points, among the islands off the shore; in the Percy Isles, about 21° 40' S. lat, Sunday Island, north of Cape Grenville about 12°, and in Good's Island, on the north-west of Cape York, in 10° 34' S. lat.

Along the north and west shores, the prevailing stratum is a reddish sandstone, agreeing so much in character with that of the west of England and Wales, that specimens from the two countries can scarcely be distinguished from each other. An arenaceous cement in the calcareous breccia of the west coast, is precisely the same with that found in Sicily; and the jasper, calcedony, and green quartz approaching to heliotrope, found at the entrance of Prince Regent's River, resemble those of the Tyrol, both in their characters and formation. hmestone occurs among the specimens from the north and western shores; but it is remarkable, that recent calcareous breccia was found by commodore Baudin to exist throughout a span of no less than twenty-five degrees of latitude, and an equal extent of longitude, on the south-western and northwestern coasts, and, according to Mr. Browne's specimens, on the shores of the Gulf of Carpentaria also.

This breccia would appear to be a very recent limestone full of marine shells, similar to that which exists on the shores of the Mediterranean and the West Indies. would be an interesting geological fact, were it ascertained that a distinct line can really be drawn between those concretions of modern formation, which occur on the sea shore, and other calcareous formations very

no granite to be found in masses near the they contain, and in the character of the coast for an extent of 1,200 geographical cementing substances, that are found in At the 19th parallel, a chain of several countries, at considerable heights lofty granitic or primitive mountains appears, above the sea. An illustration of this re-of various elevation, forming the barrier mark, indicating likewise the strata of the towards the ocean for about 300 geographical transalpine country of New South Wales, occurs at the limestone caves at Wellington Valley, 170 miles west of Newcastle, and 2,000 feet above the sea. Sir Thomas Mitchell, the surveyor-general of New South far as the eye can reach. Dr. Fitton, in his Wales, who discovered the cave in Welhington Valley, sent the following interesting account of it to the Geological Society, which that learned body has, with its usual liberality, permitted me to embody in these

> "The rock, through which the valley has been excavated, is limestone, much resembling in external characters that of the carboniferous series of Europe This appears on both sides of the valley, above the alluvial deposits in the bottom, and extends on the east to the height of about 100 feet above the stream On the west of the valley, hills of greater height run parallel to the limestone, consisting of a red sandstone and conglomerate; and a range of heights on the east of it is composed of trap rocks The basis of a tract, still further eastward, which divides the waters of the interior from that which sends its streams to the sea, is granite. The rugged surface of the limestone tract, in several parts of which the bare rocks are exposed, appears to abound in cavities, the orifices of caves and fissures, two of which, the more immediate subject of this communication, are about eighty feet above the stream of the Bell, on its eastern side; the first being a cave about 300 feet in extent, the second apparently a wide fissure in the limestone, partially filled up. The cave agrees in structure with many of those well known from the descriptions of Dr Buckland and other writers it descends, at first, with a moderate inclination, and about 125 feet from the mouth, the floor is thickly covered with a fine dry reddish dust, in which a few fragments of bones, apparently of kangaroos, occur The cavern, in different places, affords beautiful stalactites and stalagmitic incrustrations. Irregular cavities in the roof seem to lead towards the surface of the hill, and at the remotest part, the floor is covered with a heap of dry white dust, so loose and light, that one of the exploring party sunk into it up to the waist. This dust, when chemically examined by Dr. Turner, was found to consist principally of carbonate of lime, with some phosphate of lime and animal matter. In fine, the cave appeared to terminate in a fissure nearly vertical, with water at its bottom, about thirty feet below the lowest part of the cavern, and nearly on a level with the waters of the river Bell. This fissure also extends upwards towards the surface

"About eighty feet to the west of the cave above described, as the mouth of another cavity of a different description, first examined by Mr. Rankin. At this place, the surface itself consists of a breccia, full of fragments of bones; and a similar compound, confusedly mixed with large rude blocks of limestone, forms the sides of the cavity, which is a nearly vertical, wide, and irregular sort of well, accessible only by the aid of ladders and ropes. This breccia consists of an earthy red calcareous stone, having small fragments of the grey limestone of the valley dispersed through it, and in some parts, possesses considerable hardness. Near the lower part of the fissure (the whole extent of which was not explored,) were three layers of stalagmitte concretion, about two niches in thickness and three inches apart, the spaces being occupied with a red ochreous matter, with bones in abundance, imbedded both in stalagmite,

and between the layers of it.

"The bones found in the fissure just described, of which specimens have been sent to England, belong, with only two exceptions, to animals at present known to exist in the adjacent country, and their dimensions also are very nearly the same with those of the existing quadrupeds. The species, from the report of Mr Cliff, to whose examination the bones were summtted, appear to be as follow—kangaroo, wombat, dasyurus, koala, phalangista—the most abundant being those of the kangaroo Along with the remains just mentioned were found two bones, not agreeing with those of any of the animals at present known to exist in New South Wales The first and larger is supposed to belong to the elephant the second bone is also obscure and imperfect, but seems to be a part of one of the superior maxillary bones of an animal resembling the Dugong, it contains a portion of a straight tusk, pointing directly forward"

A pit was dug, by sir T. Mitchell's direction. in the surface of the ground, about twenty-five feet from the mouth of the fissure, at a place where no rocks projected, and the hill was there found to be composed of a hard and compact breecia, such as that before described, and likewise abounding in organic remains. Other caverns, containing a similar breccia, occur in the limestone on the north bank of the Macquarie, eight miles north-east of those at Wellington, and about fifty miles to the south-east at Buree, are several caves like the first described above, which communicate with fissures partially occupied with breccia containing bones Molong, thurty-six miles to the east of Wellington, a small quantity of concreted matter has been found, containing numerous bones, of which no specimens have been sent to Europe; but, from their size, they would appear to have belonged to species of animals or birds larger than those which are at present known in the country.

The specimens of rocks collected by captain King and Mr. Browne at different parts of the Australian coast line have been locally

classified as follows .-

Granite.—Cape Cleveland; Cape Grafton Endeavour, River; Lizard Island; Round Hill, near Cape Grindall; Mount Caledon; Island, near Cape Arnhem; Melville Bay, Bald-Head, King George's Sound.

Various Slaty Rocks.—Mica Slate, Mallisome instances, inhabited, by son's Island. Tale Slate, Endeavour River. within thirty or more miles fislaty Clay Inglis's Island, Crack Island, have cocoa-nut trees on them.

'ercy Island. Horneblende Rock, Pobassoo's Island, Half-way Bay, Prince Regent's River. Granular Quartz, Endeavour River, Montagu Sound, north-west coast. Epidote,

ape Clinton, Port Warrender, Careening Bay. Quartzose Conglomerates and Ancient Sandstones, Rod's Bay, Islands of the north and north-west coasts, Cambridge Gulf, York Sound, Prince Regent's River. Pipe Clay, Melville Bay, Goulbourn Island, Lethbridge Bay.

Drake of

Rocks of the Trap Formation.—Serpentine. Port Macquarie, Percy Isles. Sienite, Rod's Porphyry, Cape Cleveland. Porphyritic Conglomerate, Cape Clinton, Percy Isles, Compact Felspar, Percy Good's Island Isle, Repulse Bay, Sunday Island. Greenstone, Vansittart Bay, Bat Island, Careening Bay, Malu's Isle. Clinkstone, Morgan's Island, Pobassoo's Island Amygdaloid, with Chalcedony, Port Warrender, Half-way Bay, Bat Island, Malu's Island. Wacke, Bat Recent Calcareous Breccia, Sweer's Island, north coast, Dirk Hartog's and Rottenest Island, &c, west coast, King George's Sound, south coast. Limestone, resembling, in the character of its organic remains, Mountain Limestone of England, Interior of Australia, near the east coast.

The Coal Formation, as yet discovered, applicable for domestic or steam purposes, is confined chiefly to the east coast of Australia.

Not the least remarkable circumstance connected with Australia is the contrast its geological features present, when compared with the apparently volcame islands in the adjacent Coral and Arafura seas. The line of islands between Cape York and Mount Cornwallis are all granite, or old metamorphic rocks, and those lying between that line and the volcame islands of Erroob and Murray group, are all flat coral islands.

On the north-west coast of Australia the predominant geological feature is red sandstone, while at the island of Timor the little rocky headlands on the coast expose beds of coral and limestone, full of corals and shells apparently of recent formation. This limestone appears to constitute the whole surface of the island, spreading over all the adjacent high lands, at an elevation of 2,000 feet, giving them rather a smooth and level outline.

The rocky islands in the central north and south bend of Torres Strait are, in some instances, inhabited, but only those within thirty or more miles from the coast have cocoa-nut trees on them.

in Australia, diversity in appearance. Forest timber, brushwood, and grasses are not divided into zones, as in other countries, according to their elevation; the nature of the soil and the proximity of water seems to determine the class of productions, irrespective of latitude or altitude. In many places, the whole face of the country has the appearance of a landscape garden-a grove here, a lawn there-beyond a shrubbery, or clump of trees, and frequently a natural detected from good masonry, and appearing through the foliage like the enclosure of a parterre. The interior explorers found these apparent "pleasure grounds" of various sizes, suited to the humble cottage or the princely mansion. Even in my own limited experience of these strange regions, I have felt it difficult to realize the fact, that so far civilized man, they were untrodden, save by the foot of the wandering savage.

The geology and natural vegetation of Australia, like those of other countries, appear to be intimately connected In the districts with which we are best acquainted, the rock which forms the basis of the country, may be known from the kind of tree or herbage that flourishes on the soil above. For instance, the eucalyptus pulv, a dwarfish tree, with glaucus-coloured leaves, growing mostly in scrub, indicates the sandstone formation; while those open, grassy, and park-like tracts, affording good pasturage, and thinly interspersed with the eucalyptus mannifera, characterize the secondary ranges of granite and porphyry: the limestone forof lofty growth and vast size, while large umbrageous shrubs, the cupressus callitris and casuarina, occupy sandy ridges. From many facts adduced by the observant captain Sturt, it may be inferred that the trees are gregarious, and that the strong line that occasionally separates different species, and the sudden manner in which several species are lost at one point, to reappear at another more distant, may be ascribed to the geological strata of the country. It is, however, Australia influences the character of its pro-

Diversity of surface and aspect produces, found in Australia, while at Murrav's island. within the great Barrier reef, which is about 700 feet high at its most elevated part, with steep broken ground, the whole of its lower portion, and even a considerable part of the hills, are covered with groves of cocoa-nut trees. Mr. Jukes remarks, that at the island of Timor, where the difference of latitude is not more than forty miles from Port Essington, in North Australia, and the actual distance not 250 miles, the difference in the appearance of the vegetation is as great wall of a light-coloured stone, scarcely to be as one would expect between two countries lying under different zones. The gum trees (eucalypti) which line the shores of Australia. to 11° N. lat., are not found in New Guinea, or in the islands of the Eastern Archipelago.

Taking Endeavour Strait, Cape York, and Mount Adolphus as a base, all the islands which stretch across the Strait to the northward of them, have one common character. from having been adorned by the hand of They are all steep and rocky, many of them 400 to 500 feet high. The rocks of the main land of the adjacent islands are all porphyritic; and Mr. Jukes considers these islands as, in fact, merely the submarine prolongation of the great mountain chain of the eastern coast of Australia, and remarks, that in Torres Strait the line of demarcation is almost equally strong and precise between two groups of vegetation and two groups of the lower order of animals, as between two varieties of the human race. A sombre vegetation spreads all over Cape York and the immediately adjacent islands, of which wide forests of large but ragged-stemmed gum-trees, with almost leafless branches, are the chief characteristic.

Here and there, says Mr. Jukes, speakmation has on its superincumbent soil trees ing of the north coast, are gullies with more umbrageous foliage, and some palms, but the mass of the woods are and, hot, and dusty, the leaves not only small but dry and brittle, and the marks of frequent fires everywhere apparent in calcined rocks, blackened stems and fallen trunks. The contrast with this northern coast of Australia and the islands on the northern side of Torres Straits, is certainly very great; there, not a gum tree is to be seen; the woods are close, lofty, and afford deep and refreshing shade, impossible to determine accurately the extent often matted into impenetrable thickets by to which the peculiar geological structure of creepers and undergrowth, but adorned with varied foliage, with the cocoa-nut, the planductions: but it is a singular fact, that the tain, and other trees and shrubs useful to vegetation of the north, or tropical coasts, man. On the New Guinea coast, the vegediffers totally from that of the adjacent tation is extraordinarily luxuriant, even for islands. Cocoa-nut trees are nowhere to be the tropics. There is also a difference in the shells and echinodermata, collected about nearly 160°." At the depôt of captain Cape York and those obtained near Erroob Sturt, in lat. 29° 40', from December, 1844, or Darnley Island on the coast opposite to to the end of April, 1845, the prevailing North Australia. In the mineral, the vegetable, and the animal kingdoms, and even in that month they were variable, but west the human race (as will be shown in a subsequent chapter), the territories on each side of the narrow strait of Torres, present totally rise of the barometer, which did not ascend different aspects, which can scarcely be assigned to distinct geological formations: but it must be admitted that the sandstone strata which constitutes such a large portion of northern and north-western Australia, must have considerable influence in giving the moon was most distressing; it was impossible peculiar dryness perceptible in Australia, where, as has been truly observed, every thing absorbs heat freely, and radiates it into the surrounding atmosphere; the sea air, instead of being cooled and precipitated in refreshing moisture, has its temperature raised, and becomes an absorbent of any moisture on the surface, for the open and scattered woodlands, with their small, thinly disseminated leaves, instead of protecting the soil from the parching effects of a vertical sun, become conductors of heat, and are ever ready to catch fire from the slightest spark. Captain Sturt experienced, in November, 1845, a severe gale of hot wind, in the parallel of 27°, and about the meridian of 140°. The withering effects of this gale, which was from the north-east, were terrific. leaves fell from the trees like a snow shower: rising to 125° burst the bulb, by the exthe summer, in this region, had a temperature from 110° to 123° Fah.; the wind blowing heavily from N.E. to E.S.E., filled ignited, and rockets, on being lit, exploded ances for the barren central region, and for at once without rising from the ground. The atmosphere, on some occasions, was so rarified, that captain Sturt and his party the range of 130° Fah. in the shade, "the with animal food. solar intensity, at the same time, being

winds were from E.N.E. to E S.E.; after winds predominated. The south wind was always cold, and invariably indicated by a above 30 260, or fall below 29:540: rain usually commenced in the north-east quarter. and gradually went round to the north-west. The sky, generally speaking, was without a speck, and the dazzling brightness of the to shut out its light; and its irritating effects were very remarkable. At the depôt, the fleece of the sheep taken by the explorers into the interior ceased to grow, as did also the hair and nails of captain Sturt and his party. These facts, and the scanty vegetation, indicate the excessive dryness of this portion of central Australia, arising not only from the solar rays, but also by the terrestrial emission of heat from proximate volcanic fires. It is probable, also, that very little rain reaches the centre of Australia: on the north coast the rainy monsoons are greatly mitigated by the mountainous islands of the Eastern archipelago; on the northeast coast the lofty coast ridge of four to five thousand feet elevation intercepts the showers from the Southern Ocean; the Australian Everything, animate and manimate, gave Alps, in the south-east, are the means of way before it; the birds were mute, the diffusing a large quantity of moisture over the adjacent region, but the comparatively the horses stood with their backs to the lower elevation of the coast range of Weswind, and their noses to the ground, without tern Australia permits a greater diffusion of the muscular strength to raise their heads. rain and dew towards the interior. The A thermometer graduated to 127°, after presumed absence of any large mountains in the centre of Australia, the great distance of pansion of the mercury. The air during that centre from the ocean, the sandy formation of the country, and the saline qualities of the soil, all contribute to the belief that the interior of this insulated continent will not the air with impalpable red dust; the ground eventually be found available for the support was so heated, that matches falling on it of civilised man. But making large allowthe sandstone wastes in other places, there probably is not less than two million square miles capable of yielding in abundance the "felt a difficulty in breathing, and a buzzing productions of the temperate and of the sensation on the crown of the head, as if a torrid zones, and where horned cattle and hot iron had been there." On two occa- sheep may be multiplied to an extent that sions the thermometer was noticed to exceed would furnish all the inhabitants of Europe

BOOK II.-NEW SOUTH WALES.

CHAPTER I.

ORIGIN OF TRANSPORTATION-EARLY SETTLEMENT AND HISTORY-CONVICT DISCI-PLINE. AND RELIGIOUS REFORMATION—GRANT AND SALE OF CROWN LANDS— EFFECTS OF HIGH PRICES OF LAND-LIST OF GOVERNORS.

New South Wales, occupies one of the most interesting pages in the annals of British named. colonization. The formation of a convict settlement at the Antipodes, must have been startling proposition, and the motives which actuated the government of the day in taking so bold a step, in a matter in which their conduct was naturally watched by the public with jealous scrutiny, can scarcely be rightly understood without some knowledge of the system of transportation

previously pursued.

The causes which first necessitated the adoption of this punishment in England, in its primary form of simple banishment, may perhaps be traced to the immense increase of pauperism which followed the confiscation of church property and the extinction of monastic institutions in the reign of Henry VIII., and the absence of any efficient measures for the relief of the poor, or for the suppression of crime, which augmented so fearfully as to threaten the destruction of the very frame-work of society. An act of parliament in this reign. asserts that there were then no less than 60,000 prisoners (or about one out of every fifteen of all the males arrived at manhood) confined in the different gaols of England, and Hume appears disposed to believe that 72,000 of King Henry's subjects suffered death during the thirty-seven years of his sovereignty. In the reigns of his successors, Edward VI., Mary, and Elizabeth, various expedients were resorted to by the legislature, to check the growing progress of poverty and crime, one of which was an enactment for the raising of poor rates, (5 Eliz. c. 3), afterwards more fully carried of rogues and vagabonds.

THE original settlement and early history of passed in the 39th year of the reign of Queen Elizabeth, the place of exile is not

> In 1619, during the reign of James I., the practice of transporting convicts to America commenced, criminals being also in many instances allowed to transport themselves. An act of parliament (18 Charles II c. 3), empowered the judges to exile for life "the moss troopers of Cumberland and Northumberland" to any of His Majesty's

possessions in America.

In 1717 an act of parliament was passed, (4 Geo II. c. 11.), which recited the inefficiency of the general punishments then in use, and stated that, "in many of His Majesty's colonies and plantations in America, there was a great want of servants, who, by their labour and industry might be the means of improving and making the said colonies and plantations more useful to this nation." Under this act the prerogative of the crown to pardon was restricted by requiring as a condition, that before a convict who had once been assigned to a planter could avail himself of it, he should make compensation to his master for the loss of his services.

By virtue of this enactment, a shameful course of conduct was adopted in the disposal of the wretched prisoners, who were in fact sold into slavery at the average rate of twenty pounds per head; the numbers transported being about 2,000 per annum. The separation of the United States from England, put an end to this system, and the prisons becoming crowded, various expedients were suggested and resorted to for the relief of the country; among others that of conveying convicts to the west coast of out in a subsequent act (43 Eliz. c. 2.), and Africa, there, according to the either ignoanother very important measure was the rant or wantonly cruel proposition of some first decree by which banishment from the persons, to be turned loose among the unkingdom was ordained as the punishment happy negroes; the building of large peni-In this act, tentiaries was also strongly advocated; but

both these plans were abandoned, the one months, of which, however, four weeks were on account of the unhealthiness of the climate, the other by reason of the expense attending it, and its inefficiency in reclaiming offenders, to whose condition, Howard, and other christian philanthropists had strongly directed the attention of the nation.

At this critical juncture of affairs, the favourable description given by captain Cook of that part of New Holland which he had discovered and named New South Wales, determined the government to attempt the formation of a penal settlement at Botany Bay (so called by Sir Joseph Banks when there), as a means of attaining the following desirable ends:-1st. To rid the mother country of the yearly increasing number of prisoners who were accumulating in the gaols; 2nd. To afford a proper place for the safe custody and punishment of the criminals, as well as for their progressive and ultimate reformation; and, 3rd To form a free colony out of the materials which the reformed prisoners would supply, in addition to families of free emigrants who might settle in the country from time to time

In the twenty-fourth year of the reign of George III., an act of parliament was passed, which empowered his Majesty in Council to appoint to what place beyond the seas, either within or without his Majesty's dominions, offenders should be transported; and by two orders in Council, dated 6th December, 1786, the eastern coast of Australia, and the adjacent islands, were fixed upon as

the places of banishment.

The small fleet destined for the conveyance of the exiles, consisting of the Sirius (a frigate), the Supply (an armed tender), three store ships, and six transports, assembled at the Isle of Wight, having on board 565 male, and 192 female convicts, with a guard, consisting of a major-commandant, three captains, twelve subalterns, twentyfour non-commissioned officers, and 168 privates, all of the royal marines, together with forty of the marines' wives and their children, and provisions and stores for two years. Captain Arthur Phillip, R.N., an experienced officer, was appointed governor of the projected colony, and commander of the expedition, which left the shores of England on the 13th of May, 1787, touched for supplies and stock at Teneriffe, Rio de Janeiro, and the Cape of Good Hope, and a settlement at Norfolk Island, with a view arrived, in safety, at Botany Bay, in January, to the cultivation of the flax plant, which 1788, after a voyage of upwards of eight captain Cook had found growing there most

spent at the Cape of Good Hope.

On landing, governor Phillip was received by an armed body of the natives, but on seeing him approach, alone and without any weapon, they returned his confidence by laying down their own, and receiving him in a very friendly manner. On proceeding to examine the bay, he soon found, that though extensive, it was ill-adapted for the foundation of a large settlement, being open to the full sweep of the easterly winds, which rolled a tremendous sea on the beach, and the greater portion of the land, morcover, though delightful for botanizing, was found to be little better than a series of swamps and sterile sand, very badly supplied with water. Little suspecting the close vicinity of one of the finest harbours in the world, captain Phillip resolved to examine what captain Cook had termed Broken Bay, where the Hawkesbury disembogues; but, on his way thither, he stopped to investigate an inlet, marked in the chart as a boat harbour, to which (appearing of little importance) captain Cook had given the name of Port Jackson, from the seaman on the look-out, by whom it was descried. On passing the lofty headlands which form the entrance of this "boat harbour," the astonishment of the governor may be conceived, when he found himself in a haven in which the whole of the British navy might securely ride at anchor, navigable for vessels of any burthen fifteen miles from its mouth, indented with numerous coves, and sheltered from every wind. Thither the fleet was immediately removed; and, on the 26th of January, 1788, the British flag was hoisted on the shores of Sydney cove, then thinly wooded, and abounding in kangaroos. silence and solitude of the forest were soon broken by the resounding stroke of the woodman's axe; the ground was cleared, tents pitched, the live stock (consisting of one bull, four cows, one bull-calf, one stalhon, three mares, and three colts) landed, stores deposited, and the little colony (numbering 1,030 souls) established. Farms were laid out at Rose Hill (Parramatta) and other places; every encouragement was given to raise the means of sustenance from the soil, and a few convicts were emancipated, and obtained grants of lands as settlers. The governor having also received orders to form luxuriantly, the Supply sailed for that place woods near Sydney for several weeks, enpersons supposed to have some knowledge forest, lost also his senses. five weeks and two days) reported the ex-Island, and the unfortunate loss of five lives thereby, but brought most favourable accounts of the richness of the soil and salubrity of the climate. Meanwhile great and increasing difficulties were experienced by the infant colony at Sydney Cove, the scurvy broke out among the convicts, and resisted every attempt made to check its progress by medicine, while the evil tendencies of their minds, repressed in some degree during the voyage, and their rooted habits of idleness, became daily more manifest.

Among the numerous disappointments which the governor, notwithstanding the most strenuous exertions was doomed to exof his hopes of maintaining a friendly intercourse with the natives. M. de la Pérouse, (see p. 367) while he remained in Botany Bay, had some quarrel with the natives, in which he was unfortunately obliged to use his fire arms, and this affair, together with who, in spite of all prohibitions had wandered among them, produced a shyness on the part of the aborigines which resulted in open enmity. The soil around Sydney Cove was found to be extremely sterile, so sufficient grain for the settlement was out of the question, the cattle were lost through advisable to divide the colony. In Februroad to China! These travellers consisted being found that stock was improvidently

in February, (1788) with heutenant King as deavouring to find the road to China, had superintendent, accompanied by one surgeon, not only lost his way, but, as is often the one petty officer, two private soldiers, two case when the traveller is bewildered in a As good luck of flax dressing, and nine male and six would have it, Pat, almost famishing, reached female convicts with tents, implements for what he thought a Chinese town; instinct husbandry, tools for dressing flax, and pro- drew him towards one bark hut in particular, visions for six months. The Supply on its which he cautiously approached, and was return to Port Jackson, (having been absent most agreeably astonished to find his wife, whom he joyously hailed with, "Oh! Judy treme difficulty found in landing on Norfolk dear, how did you find your way to China?" The number of natives who then resorted to the shores of Port Jackson to fish or hunt was considerable, and hostilities soon commenced between them and the new comers, in the course of which many cruelties on both sides were committed.

> The Sirrus, which had been despatched to the Cape of Good Hope for flour, returned in May, 1789, and although the supply she brought was not very large, as the ordinary rations of four months would exhaust it, yet it seemed to gladden every heart, and remove for a time the despondency which was

rapidly gaining ground.

On the 4th of June, 1789, the second perience, not the least was the frustration anniversary of his Majesty's birthday commemorated in this country, the governor endeavoured, as he had done on the previous occasion, to foster a loyal spirit by making it a day of rejoicing, and the convicts were permitted to perform Farquhar's comedy, "the Recruiting Officer," the prologue the ill behaviour of some of the convicts, spoken on the occasion contained a pertinent allusion to their own position in the words,

"True patriots we, for be it underst ind, We left our country for our country's good."

In spite, however, of every effort to disguise or meet them, difficulties increased that the possibility of immediately raising at Sydney, and the accounts from Norfolk Island continuing favourable, it was thought the neglect of the person in charge; while ary, 1790, a large body of convicts (above the conduct of the prisoners was too often 200) together with two companies of marines, very detrimental to the public weal, theft were ordered thither, on board the Sirius being general, and desertion into the woods and the Supply. A serious evil, the innot unfrequent. At one time forty persons jurious consequences of which were long felt were absent from the settlement on their in the colony, attended this measure. It principally of Irish convicts, who being pos- killed, an order was given to prevent the sessed with the idea that China was not further destruction of an article so essential far distant to the northward, were always in the present state of affairs, (the governmaking up parties for the purpose of de- ment rations having been thrice reduced camping thither. Most of the wanderers since the beginning of November) until perished of hunger, or were speared, and some necessary regulations could be pubprobably eaten by the natives. An anecdote lished; but the officers and people who were is told of one who, after traversing the about to embark were not included in this prohibition. The mention of future neces- only three small kangaroos being brought in sary regulations, gave rise to an opinion the ships, all the live stock in the colony would be called in, or that the owners would be deprived of the benefits which might result from its possession, and, under the pretence of its belonging to those who were exempted by the late order, nearly all the stock in the settlement was destroyed in the course of a few nights.

Another heavy disaster resulted from this unfortunate expedition, for the Sirius, which on its return was immediately to have proceeded to China for supplies, was lost with all the provisions which had been sent with the convicts, upon a reef at Norfolk Island: her officers, crew, and convicts were however all saved, having been dragged on shore, through the surf, on a grating. Owing to the increase of population without any corresponding augmentation of provisions, the inhabitants of Norfolk Island were on the eve of perishing, but for the unexpected relief afforded by a flight of aquatic birds which alighted on the island, to lay their eggs Owing to the length of their pinions, these birds take wing with difficulty; and their numbers were so great, that for two months the settlers caught at least from 2,000 to 3,000 every night, and also procured an incalculable quantity of eggs, thus these "birds of Providence" saved the lives of the people

To return to the principal settlement The long-looked for ships from England did not arrive, and the necessity for procuring succour becoming daily more urgent, on the 17th of April, 1790, the Supply was sent to seek relief from Batavia. the miserable ration issued from the public store to each man for seven days, wasof this sadly insufficient ration, the pork, from the length of time that it had been in store, had shrunk away to nearly nothing. The manly and unselfish conduct of the governor had been throughout remarkable, but it was especially manifested during this season of of flour which was his private property, declaring, that although it was not in his power to remove the want felt by the convicts, they might at least know that it was house; and to this resolution he rigidly the former pursuit, little benefit resulted, resolved to sink with his vessel; but it was

at the end of a month by the persons emamong the convicts that on the departure of ployed to shoot for the settlement; and the food obtained from the latter was not often more than equal to supplying the people employed in the boats with one pound of fish per man, which was allowed them in addition to their ration. Even this scanty resource seemed likely to fail them in their greatest need; for on the first and second days of June, (their seasons, be it recollected, being exactly opposite to ours,) the stormy weather prevented fishing, and threatened to continue throughout the third day. The wretched people seemed destined to drink to the dregs the bitter cup of hope deferred.

They had long, and, as the event proved, rightly conjectured, that the non-arrival of supplies could not be owing to the wilful neglect of the home government, but must be consequent upon some unforeseen delay or fatal accident. Their worst fears received a speedy confirmation. On the afternoon of the 3rd of June, the long-looked-for signal was made for a ship at the South Head, which proved to be the Lady Juliana transport from Plymouth, not bearing the muchdesired cargo of provisions, but laden, in its place, with 220 female convicts, and bringing to the unfortunate colonists intelligence of the loss of the store ship sent by government for their assistance. The Guardian, a fortyfour gun ship, commanded by lieutenant Riou, had sailed from England in September, 1789, richly freighted with two years' provisions for the settlement, and an immense variety of all manner of stores. She had On the 20th of April reached the Cape of Good Hope in safety, had there taken on board a quantity of stock for the settlement, and completed a garden, flour, 2½ lbs.; rice, 2 lbs., pork, 2 lbs.; and which had been prepared under the immediate inspection of Sir Joseph Banks, and contained 150 of the finest fruit trees. Leaving the Cape, the Guardian proceeded on her way; but on the 23rd of December she struck upon an iceberg in 45° 54' S. lat., 41° 30' E long., and thereby received so severe trial; he gave up three hundred weight much injury, that heutenant Riou, to save her from instantly sinking, was compelled to throw overboard the greatest part of her valuable cargo. The stock was killed, the garden destroyed, and most of the passenequally experienced even at the government gers and crew left her, in five boats, four of which were never afterwards heard of; the adhered. Every exertion was made to pro- fifth, with much difficulty, reached the Maucure food by hunting and fishing; but, from ritius. Lieutenant Riou remained behind,

for a time, was eventually sacrificed for his following year, governor Phillip, whose health country at Copenhagen, and the Guardian, was seriously impaired, left the colony which having been tossed about for several days, at with untiring zeal. To the firm but merciby a French frigate, near the Cape of Good such of her stores as yet remained were landed.

In addition to the above disastrous tidings, the disappointed colonists were informed that 1,000 convicts might be shortly expected, was consequent upon the arrival of the Juliana, the supply of provisions on board her being so inconsiderable as to justify only the addition of one pound and a half of flour being remembered, had previously commanded the made to the weekly ration. A deep gloom, enhanced by the frustration of their hopes, when they were apparently on the eve of realization, overspread every countenance; but effectual relief was near at hand, on the 20th of the same month the Justinia arrived from England with a large cargo of provisions and stores. A few days after three transports, laden with the convicts whose coming had been announced by the Juliana, reached Port Jackson; 274 of these unhappy people had perished during the voyage, and disease by a portion of the population for engaging was so rife among them that, according to heutenant-colonel Collins, several of them died in the boats as they were being rowed to shore, or on the wharf as they were lifted had ever been witnessed in that country. nals themselves, the arrival of the transports addition to the provisions brought by them from England, were 400 tierces of beef, and 200 tierces of pork, saved from the Guardian, and put on board at the Cape of Good Hope, and all anxiety respecting the stores was subsequently set at rest by the adoption of a more regular system in the forwarding of The aspect of affairs began to brighten, the lines for a regular town were laid out, various public buildings commenced, and the non-commissioned officers and privates of the marines were encouraged in becoming settlers by grants of land. In September, 1791, H.M.S. Gorgon arrived whole containing 1,695 male and 168 his administration lasted for six years, and female convicts; upwards of 200 having died was distinguished by what is termed the

otherwise ordained; and his life, preserved during the voyage. In the December of the with the loss of masts and rudder, after for nearly five years he had superintended the mercy of every gale, was fallen in with ful and just policy which he consistently maintained, notwithstanding the varied diffi-Hope, and towed into Table Bay, where culties of a most arduous position, may be attributed, under Providence, the successful issue of the infant settlement from the trials which so frequently threatened its destruc-

After the departure of governor Phillip, and little benefit even of a temporary nature captain Grose administered the affairs of the colony, as heutenant-governor, until the arrival of the new governor-general, captain Hunter, in September, 1795, who, it will be Sirius frigate, when the settlement was first formed. Governor Hunter appears to have been an honest straight-forward sailor; his administration lasted five years, during which period the colony made considerable progress. Settlers occasionally arrived from England, and the accession of a regiment called the "New South Wales Corps" (afterwards the 102nd of the line) was beneficial in many respects.

The officers of this corps were much blamed

in mercantile pursuits instead of confining themselves strictly to the duties of their profession. In this censure Dr. Langunites, but he appears to overlook the peculiar cirout of the boats; both the living and the cumstances in which these gentlemen were dead exhibited more horrid spectacles than placed, having nothing but their pay and convict rations to rely on for the support of Apart from the distressing state of the crimithemselves and their families. The price of provisions was at that period very high, was in other respects beneficial; for in wheat being 12s. a bushel, mutton 2s. a pound; a cow fetching £80, and so on in proportion. (See Collin's Account of New South Wales, p. 333.) This state of things compelled them to import their own supplies, and rear their own stock, and it was fortunate for the colony that they were enabled to The total number of inhabitants, do so. free and bond, was, on captain Hunter's departure in September, 1800, about 8,000; of these about 2,500 were stationed at Sydney, and the remainder at the agricultural establishments at Parramatta, Prospect, Toongabbee, and Castlehill. Captain King, R.N., who as heutenant of the Sirius, had at Sydney, convoying ten vessels, which effected the settlement on Norfolk Island, formed what is termed the second fleet, the was appointed to succeed Captain Hunter: "Irish rebellion." victs, attached to the establishment at Castlehill, twenty miles from Sydney, struck for their liberty; but being armed only with pikes, were, after a very brief contest, discomfited by the military at Vinegar Hill, a few miles from Parramatta, on the Hawkesbury road; a few were shot by the troops, some of the leaders taken and hanged immediately, and the rest returned quietly to their This is the only instance of an insurrection of the convict population since the foundation of the settlement.

Governor King met with much opposition, and though zealous and conscientious, does not seem to have been adequate to the magnitude of his trust. A circumstance is said to have occurred during his tenure of office very characteristic of the then predominating genius of Botany Bay. Charges of a serious nature having been preferred against a gentleman in the colony, despatches relating thereto were prepared, to be forwarded to the secretary of state in England, but, the officer who had charge of them imprudently mentioned their contents, and the box when opened in due form in Downing-street, was found to contain only a bundle of newspapers. the criminating despatches having been adroitly abstracted from it before leaving before he could be convinced that his life handed down with infamy to posterity, by populace reason of his tyrannical treatment of Christian and his comrades in HMS. Bounty, when sent to convey the bread fruit tree board the Porpoise sloop of war. from the South Sea islands to the West Indies, was appointed to succeed captain longer selected as governors. Lieutenantjudged, for a man who, notwithstanding his Macquarie was next appointed. undoubted skill as a mariner, had shown South Wales regiment was ordered to Enghimself incapable of governing a small ship's land, and the regular troops of the line company, was clearly unfit to be trusted with placed on the "roster" for service in the arbitrary power in New South Wales, Cap- colony. During governor Macquarie's adtain Bligh's conduct there was only too ministration of twelve years, the settlement much in accordance with his previous life. made great progress; the population was The former results of his tyrannical proceedings, appear to have utterly failed in teaching him either the duty or expediency of pursuing a different course of policy, for on entering his new position he behaved towards the whole population as if it had been entirely composed of criminals with abject minds; treated the officers of the New South Wales corps and the most respectable settlers with marked con tempt, and was the first to trample under foo the rights which it was his especial duty to uphold. One individual in particular expe rienced from the governor an unwarrantable

Several hundred con- series of persecutions. This gentleman, Mr. ohn M'Arthur, had obtained the name of he "Father of the Colony," and well did e deserve the appellation for the untiring zeal with which he strove to augment the resources, and raise the position of the land he had chosen for his home, stimulating the dormant energies of those about him by his wn example, and aiding the poor by wealth ionourably acquired during a long and extrardinarily active life. The oppressive and unjust sway of governor Bligh was endured by the colonists for eighteen months, but at ength it became intolerable, and on the 26th of January, 1808, they rose with one accord, and, as with a single voice, having declared his deposition, vested the supreme authority in the hands of heutenant-colonel Johnstone, the senior officer in command of he troops. The arrest of the governor having been resolved upon, the soldiers marched up to the Government House, with heir officers at their head, to arrest the governor, who after a long search was discovered concealed under a servant's bed, in an upper chamber, covered with flue, and Lake most trembling with apprehension. tyrants he was entirely devoid of moral courage, and it was a considerable time Captain Bligh, whose name is was in safety from the vengeance of the Both his person and property were, however, carefully guarded, and after some time he embarked for England on

From this period naval officers were no The selection was singularly ill-colonel (afterwards major-general) Lachlan increased by numerous convicts and some emigrants, and by the aid of a carte blanche on the British treasury, many public buildings were erected-roads constructed-the fine Bathurst country over the Blue Mountains explored, and several government farms estab-The convict population received hshed. great encouragement from general Macquarie; his maxim being to endeavour to induce every convict to consider his European life as a past existence, and his Austrahan one an entirely new, in which career he would find honesty to be the best policy

magistrates, gave others colonial situations, and distributed among them large quantities Truly philanthropic as were the motives which dictated his conduct, there yet appears reason to regret that governor Macquarie did not exercise more discrimination in his choice of individuals deserving of encouragement, and greater consideration for the feelings or prejudices of the free settlers, from whom he could not reasonably expect an entire appreciation of his own views; and from hence is said to have arisen the formation of two parties in the colony the exclusionists and the emancipists, (or freed convicts,) who continued for many years engaged in active opposition to each

Major-general Sir Thomas Brisbane, who succeeded governor Macquarie in 1821, was an amiable and scientific man, but deficient in energy of character; his successor, heutenant-general Sir Ralph Darling, possessed considerable ability, and strongly desired to benefit the colony; but his long employment at the "Horse-Guards," (a school well fitted for the inculcation of military discipline, but ill-calculated to prepare the mind to grapple successfully with the heterogeneous elements of which the society of New South Wales was composed,) and his previous government of a slave colony (the Mauritius), did not tend to qualify him for the exercise of the pecuhar authority then vested in the governors of this semi-penal settlement. Intimate and personal knowledge of general Darling, both in his public and private capacity, seems to entitle me to bear testimony to his administrative abilities—to his remarkable aptitude for the despatch of public business, and high integrity of character. When officially employed in the colonial secretary's office at Sydney, and confidentially entrusted by the excellent secretary of the colony, the honourable Alexander M'Leay, with the drafting of the governor's despatches and letters, I had frequent opportunities of scrutinizing the motives which actuated the conduct of the governor, then violently attacked and maligned. From the and her family, she attended divine service in its glories, and an anxious wish to be

and good conduct ensure its reward. This twice on every sabbath-that sacred day was his grand principle of government; but, being, for the first time in the annals of the like most men, strongly imbued with a colony, duly observed at the government house; favourite view, it sometimes led him too far. and in the charitable institutions which she The emancipated convicts received from him set on foot, as well as the influence she an undue share of patronage—some he made exercised on the social habits and domestic peace of the colony, were forcibly illustrated how much both the present and prospective happiness of a community may be promoted by the righteous conduct of those set in high places.

The administration of the subsequent governors-major-general Sir R. Bourke, Sir George Gipps, and Sir Charles Augustus Fitzroy, does not require any particular mention. As is the case in all colonies, during the period of their passing from individual to constitutional rule, their governors had many difficulties to contend with, which, however, have been surmounted with remarkable success. The first step of a Legislative Council, partly nominated by the crown, and partly elective, was taken in the year 1840. That measure proved eminently successful, and has prepared the colonists for an elective House of Assembly, which is now about being granted by the crown and

imperial legislature.

The colony has passed through periods of alternate prosperity and depression, in some instances arising from long-continued droughts, and in others from the too great speculation, consequent on the rapid acquisition of wealth. During a recent season of distress, sheep, the staple property of the colonists, were reduced to the price of two shillings and sixpence each, and every other commodity, or representative of value, was proportionably depreciated. Large quantities of sheep and horned cattle were boiled down merely for the sake of the tallow thus produced, and a new and lucrative article of export was thus created.

The colonists are now slowly recovering from four years of continued adversity; and, grown wiser by experience, they will not, it is to be hoped, again rush into foolish speculations, or engage in ruinous projects: at least, for some years to come, their enterprise and exertions are most likely to be characterized by prudence. But whether suffering from unpropitious seasons, or from the consequences of their own imprudence; or elated by riches and rapid progress, the colonists of New South Wales have, from example of lady Darling great benefit re- the first, evinced a loyal attachment to the sulted. In conjunction with the governor parent state—an ardent desire to participate

deemed worthy of the possession of those work on the State of Religion and Education free and christian privileges which it is in Britain to grant.

TRANSPORTATION, CONVICT DISCIPLINE, RELIGIOUS INSTRUCTION, AND REFORMATION OF CRIME -- This highly important subject, both in a political and Christian aspect, necessarily claims consideration in a work treating of a settlement once solely penalbut now totally devoid of a convict population; and the leading facts connected therewith, deserve record not only as composing a portion of the history of the past, fraught with warnings of the most serious nature. but also as affording incontrovertible evidence that England, notwithstanding her shortcomings as a Christian nation, has yet (at least in some degree) awakened to a sense of her responsibility as such. To be convinced of this, it needs but to look back upon her general conduct at the close of the last and the early part of the present century, with regard to the subject now under review, and compare it with the different line of policy now pursued.

In 1787, England, her statesmen, her philanthropists, and public opinion, through its organ the press, while evincing consid- for and disregarded. erable solicitude for their temporal welfare, utterly disregarded the spiritual wants of the expatriated criminals sent to found a penal settlement at the antipodes, and also of those employed to guard and govern the

erring wanderers.

The Rev. Samuel Marsden, the much esteemed chaplain of New South Wales from 1794 to the period of his death in 1838, in whose domestic circle I had the privilege of witnessing the practice as well as hearing the inculcation of the precepts of the Gospel, thus records this astounding fact; I say astounding in reference to the convictions and actions of the British nation,—of its statesmen, legislators, press, and public opinion. at the present day. The reverend gentleman states that "when the fleet was on the point of sailing with the first convicts for Now South Wales in the year 1787, no clergyman had been thought of, and that a friend of his own, a pious man of some influence, anxious for the spiritual welfare of the convicts, made a strong appeal to those in authority upon the subject, and through the interest of the late bishop Porteous with Sir Joseph Bank the Rev. Richard Johnston was appointed chaplain." Judge Burton, in his excellent

n New South Wales, published in 1840, the power of the crown and legislature of when narrating this circumstance, states that ' an oversight equally remarkable took place upon the recent expedition to Port Essingon, (for the foundation of a new colony on he north-west coast of Australia) under the command of Sir Gordon Bremer, in H.M.S. Alligator, accompanied by the Britomart brig, heutenant Stanley commander, (son of the late bishop of Norwich) which sailed from England with five hundred souls, unprovided with any minister of religion. There was no clergyman at the disposal of the bishop of Australia when the expedition reached Sydney on its way to the place of ntended settlement, but his lordship furnished it with such means as were in his power, he caused a temporary church to be constructed, and bibles, prayer-books, and other religious publications to be supplied to Sir Gordon Bremer." No Christian will be surprised to learn that misfortune, sickness, and death have been rife at Port Essington, and that now, in February, 1850, a British ship of war is on its way from Singapore to convey the ill-fated survivors away from a settlement in whose formation the ordinances of religion were entirely unprovided

To return to New South Wales. It is true that one minister of religion did accompany the fleet of 1787, and well he performed the duties to the extent of his strength; he visited the sick and the convicts in their several abodes, and administered to them consolation and instruction. his labours were far from being satisfactory to himself, or as useful as he wished them to his flock; while barracks, and other substantial structures were built for the use of man no temple was reared for the worship of the hving God. For nearly seven years divine service was celebrated in the open air subject to all the inconveniences and interruptions arising from a changeable chmate. At length the reverend gentleman caused a temporary place of worship to be constructed at his own expense, which was opened for public worship on the 25th o' August, 1795, but the attendance was small and up to the year 1800, when governor Hunter quitted the colony, there were few who evinced any religious feeling. [Evidence before the House of Commons in 1812.7 On the return of the Rev. Mr. Johnston to England in 1800, the spiritual guidance of the colony, with its annually increasing num

ber of convicts, was confided to one chap- had been erected on the banks of the lain (the Rev. Samuel Marsden) for seven Hawkesbury, in 1809, in which a Scotch In 1803, when the population settler officiated as cathechist. amounted to 7,097 men, women, and children, it was found that there were a large number of Roman catholics without any pastor. To remedy this serious evil, a convict named James Dixon, who, it was alleged, had formerly been in priest's orders, received a conditional emancipation, with permission to exercise clerical functions.

In 1807, the Rev. S. Marsden proceeded to England to endeavour to procure assistance for the ministry of the established church, and to advocate a Christian mission to New Zealand. The Rev. Mr. Fulton temporarily officiated during his absence. In 1808, the Rev. Mr. Cowper arrived; in 1809, the Rev. Mr. Cartwright; and in 1810, Mr. Marsden returned, but the labour of these four chaplains was still very severe in visiting the widely spread dis-

In 1817, when the population amounted to 17,214 souls, of whom 6,777 were convicts, dispersed over a large territory, there were but five chaplains. At this time only one church had been built at Sydney, and one at Paramatta: but so few persons attended divine service, that one of the early governors was informed of the fact, and being induced himself to attend the Sabbath worship, announced that "he expected his example would be followed by the people." With reference to the Roman catholic church, how long it was left under the superintendence of an emancipated convict, is not exactly Wales and Van Diemen's island.

The Presbyteman church was equally neglected. Until 1826 no minister of this which under Providence eventually worked persuasion was appointed to a chaplaincy in great good. the colony, although a Presbyterian church

meritorious and long-continued exertions of the Rev. Dr. Lang, the Presbyterians were, in 1824-5, indebted for some attention to

their urgent wants.

In 1833 the population consisted of 60.794 souls, of whom 16,151 were convicts; the Protestants numbered 43,095, and the Roman catholics 17,238. The Church of England establishment then consisted of an archdeacon and fifteen chaplains, and within forty miles of Sydney there were seven stone or brick churches, two others in more remote parts of the colony, and several less permanent buildings. The Roman catholics had three clergymen, and the Presbyterians two. But so far was spiritual instruction from being deemed a necessity, for which it was the positive duty of government to provide, that Norfolk Island, with several hundred convicts, had no chaplain; and in Port Stephens, with a large body of convicts, and 100 free settlers, there was only an Irish convict schoolmaster. Under such circumstances it cannot be matter of surprise that crime rapidly increased in the colony; that the free emigrant population took alarm when they found, year after year, the convicts largely increased by augmenting deportations from England until their numbers equalled those of the emigrant class. attention of the imperial parliament was called to the subject, it was said that transportation had failed, both as a punishment deterring from crime in England, and as a known: in 1818, the Rev. Mr. Flynn was means of reformation in Australia, whereas appointed archpriest at Sydney, with power it was the neglect of religious instruction, to confirm; but on his arrival at New South the total want of spiritual aid, the assign-Wales he was rejected by the local government of convicts to settlers who were themment, and sent home on the ground of his selves but recently emancipated, and who having come out unsanctioned by the civil during their bondage had never heard the authorities. Mr. Flynn left behind him in words of religion: it was these, and other the house of a Roman catholic at Sydney a radical defects, which had perverted the "consecrated wafer," the symbol of the beneficial effects that might and probably Eucharist, and the sole spiritual consolation would have arisen from a judicious system which the Roman catholics possessed until consistently carried out. The matter was the year 1820, was the assembling round the first brought under public consideration by "bread of life" to offer up their prayers; at Mr. Justice Burton, one of the judges of the length they were gratified by the arrival of the supreme court of New South Wales, in a Rev. Mr. Therry, who for six years was the charge which he delivered to the jury on the only Roman catholic priest for New South 18th November, 1835, a charge which at first exposed this eminent and pious judge to great and unmerited reprobation, but

The following is an abstract of the facts

stated in this remarkable document, which soon attracted the attention of the government in England, as well as that of the Australian public. It was therein stated that-

"In 1833, there had been 135 capital convictions. on sixty-nine sentence of death had been passed forty-five of those capital convictions, and fifteen of these sentences of death had taken place upon his (judge Burton's) judicial responsibility

"In 1834, 148 capital convictions, in eighty-three of which sentence of death had been passed, fortyeight of which convictions and thirty-six of which

sentences had been before himself.

"In 1835, 116 capital convictions, and seventy-one sentences to suffer death, fifty-six of which convictions had taken place before him, and twenty-eight of which sentences he had passed In addition to which sentences there are thirty-three prisoners who have been capitally convicted, waiting for sentence ther death might be recorded or passed upon them, the number of capital convictions was a feature sufficiently striking in the administration of justice in this colony, for it was to be remarked, that capital punishment had been taken away from several offences, such as forgery, cattle-stealing, stealing in a dwelling house above the value of £5 (those fruitful sources of capital convictions in former times), ever since the 1st of August, 1833, so that those which had taken place since that time were all for crimes of violence, murder, rape, robbery, burglary, maliciously stabbing, shooting, and wounding, and offences of sımılar character

"The calendar of the present sessions (1835) presented the following facts —There had been convicted of murder, 2, stabbing with intent, &c, shooting at with intent to kill, cutting and maiming, assault with intent to do bodily harm, 6, manslaughter, 2, at on, 1, piracy and burglary, 8, housebreaking, 10, highway robbery, 7, receiving, 1, forgery, 2, larceny on the high seas, 1, larceny, 4, cattle stealing, 1

piracy only, 1, robbery, 8-total, 54

"Prisoners in gaol on the 18th of November, 1385 who had been in custody previous to the 2nd o' November, 1835, viz —For trial on the 18th, 7 quarter sessions, 6th December, 39, stand for nex criminal session, 13, for discharge, 3, consideration 19—total, 81. Tried on the 18th, 7, convicted cattle stealing, 2, robbery and receiving, death re

corded, 4, acquitted, 1-total, 7.

"The picture presented was one of the most painfu description it would appear, to one who could look down upon the community, as if the main business of all were the commission of crime and the punishment o it, as if the whole colony were continually in motion towards the several courts of justice, and the most painful reflection of all must be, that so many capita sentences and the execution of them have not have the effect of preventing crime by way of example

"In his (judge Burton's) opinion, one grand cause of such a state of things was, an overwhelmin defect of religious principle in this community, principle which he considered as the polar star to guide a man in all his conduct, and without which none other would prevent him from crime he might not be said to make so grave a charge upo light foundations, he would instance the crimes o violence, the murders, the manslaughters in drunker revels, the perjuries, the false witnesses from motives of revenge or reward, which in the proceedings before

um had been brought to light. Many instances pon his notes of evidence in cases tried before him. had brought him to the conclusion that there is an verwhelming defect of religious principle in this

olony

"He could not but acknowledge there was a defiency of religious instruction in the colony There was not that number of religious teachers its extent nd population required He did not intend to imoute brame to any one individually But when he imputed a want of religious principle, he looked around to see whether there was an adequacy of eligious instruction in order to point their attention to this circumstance, so that if they found a defi-nency, they might call upon the proper authorities to make such an addition as necessity required were at present only thirty such persons for the whole of this scattered population, independent of a few whom the charity of societies in England had supslied-a number too scanty to admit of any being pared for the penal settlements It had been his ot to visit one of those penal settlements hem herding together without any chance of improvement, without any religious instruction was painful in the extreme One man particularly had observed, in a manner which drew tears from his eves and wrung his heart when he was placed before him for sentence, 'Let a man be what he will when he comes here, he is soon as bad as the rest, a man's heart is taken from him, and there is given to him he heart of a beast' He did not impute blame a any one, and he trusted no such motives would be ascribed to him, but in a question of such vital importance, which involved not only the present but the ultimate welfare and security of the colony, all were interested, and it was the duty of every one to do what he could to ameliorate, if possible, its present condition He only stated the fact, and lamented it

"He felt, however, bound to say, that masters of convicts were not sufficiently attentive to the morals of their men, defective as our means of reli gious instruction might be, it had been proved before him, that highly respectable persons, residing near to a church in the same town, and within a few miles, not only neglected to oblize them to attend the church, but actually suffered them to spend the Lord's day amidst scenes of drunkenness and debauchery Nor was that all It had been further proved that the Lord's day, by some masters, was made a day of labour, and that some other day was allowed to them as an equivalent But what equivalent, he would ask, could a master give for the loss of that moral instruction which the security of society required? There were, doubtless, many who, being under the necessity of attending a distant service, could not take their servants, but he would ask whether, in such situations, they did all which they could p He would ask, what was the example which had been set by them? What instruction did they give them? It was in every man's power to set an example of moral conduct, and observance of the Lord's day. in his own person, and to gather his family and servants together for divine worship, whether a church was near or distant And he would farther beg to impress upon their minds, that they were not in a situation to blame others for wart of moral instruction so long as they did not avail themselves of such means as were already within their power He was sorry to say, that many of the worst crimes which had been brought under his notice were committed on the Lord's day, and he was led to apprehend, that there was a very general disregard and desecration of it. There were other causes which led, in his opinion, to crime in this country. With respect to them there might be a difference of opinion; he could only say that he had formed his own; and as he was prepared to give it to the governor, he should be wanting in candour if he did not state it to them.

"He had been induced, by what had been proved before him in that court, gravely to consider the question of convicts working in gangs out of irons, and felt convinced it was one of the most fruitful sources of crime to be found in the colony. He had before him a return, from which it appeared that the number of convicts at this time employed upon the roads is 2,240, of whom 1,104 are out of irons and (he continued) when they, the jury, considered who these latter men were, and what they had been placed under the guardianship of a convict overseer; that they left their huts in any number, armed or unarmed as they pleased—in short, from the evidence he had upon his notes respecting the conduct of the road parties of the colony, it would appear that those establishments were like bee-hives, the inhabitants busily pouring in and out, but with this difference—the one works by day, the other by night, the one goes forth to industry, the other to plunder To the carelessness or worse conduct of overseers, he did attribute a vast proportion of the burglanes and 10bberies that were committed in the country districts. It had been proved in a recent case, (he spoke from his notes), that a party of these men had committed a robbery, under such circumstances of aggravation, that sentence of death had been passed upon four of them. He must, however, say, that the settlers were themselves to blame for many of the crimes committed by convicts belonging to road parties. They too frequently appear to have employed these men in their leisure or working hours, or on a Sunday, paying them for their labour in money, which was spent in drink, and so prepared them for the commission of crimes,

"He must press upon their attention, considering the nature of the population of this colony-the fact that men are passing daily from one class to anotherwhat must be the effect upon those institutions, and of men passing from one class to another without moral improvement? To himself it appeared, that it must be the total corruption of them all. In that point of view alone the subject was well worthy their grave attention. Free institutions could only be appreciated and enjoyed by the virtuous; coercion was for the depraved; and a vicious people have never continued to be free. He stated, that he felt he need do no more to impress upon all their minds the necessity there was for exercising all their influence to procure the moral improvement of those persons who are committed to their trust, and their utmost vigilance and superintendence over them to restrain them from crime, than draw their attention to the comparative numbers of the free and convicts in this colony, and to the fact, that the tide of convict population still sets strongly here, whilst that of free emigration appears feebly to reach our shores stated, that it appears from the census taken in September, 1833, published in the next government Gazette after the 31st December, 1833, that it was there estimated that there were in this colony-free males, above twelve years of age, 17,578; convict males, 21,845: and that he had been informed, that the number of free emigrants since arrived, up to

November, 1835, has been 2,800, of whom 900 are men, the rest being women and children; and that the number of convicts arrived since the same time has been 8,163, of whom 7,357 are males. He trusted they would take with them to their homes the facts he had stated, and the opinions he had expressed, and communicate them to their neighbours, so that each might judge for himself as to the justness of his views. The facts themselves he had drawn from what had come before him in evidence, and as such he put them He sincerely hoped they would have proper weight upon the minds of every one to whom they were stated; and that as he had taken this opportunity of inquiring, on his part, what he had done during the last three years, each one of them would also consider what he had been doing during the same period."

But not only did the judge on the bench warn his Majesty's government of the spiritual destitution of the colony, the archdeacon (Broughton) of New South Wales proceeded to England in 1834 for a similar purpose; in February, 1835, this exemplary divine made a statement to the Christian Knowledge Society and to the Society for the Propagation of Christran Knowledge, when £3,000 was immediately placed at his disposal by the first-named society, and £1,000 by the latter. New South Wales was erected into a diocese, but bishop Broughton had the mortification of returning to the colony unaccompanied by a single clergyman, "owing to the refusal of his Majesty's government to sanction any allowance towards the expense of the passage, or residence, or means of support of any additional clergymen" This determination apparently arose, according to the first report of the Australian Diocesan Committee, from a prevailing impression that the inhabitants of the colony were opposed or at least indifferent to an extension of the ordinances of the church of England, whereas the reverse was the case Although in some places the rites of religion were only performed monthly, in others half-yearly, and notwithstanding that the population had doubled between 1829 and 1837, and become much more widely scattered over the country, only two additional clergymen had been appointed from England.

Public opinion was now, however, strongly directed to the question of secondary punishments; the inefficiency of transportation, as a preventive of crime, was powerfully urged by the archbishop of Dublin (Dr. Whately) and other eminent persons, and a very unfavourable feeling was created against New South Wales, both as a penal settlement and as a colony to which respectable emigrants might resort. In the years 1837 and 1838 a select committee of the House of Commons

was therefore appointed to consider on this highly important subject, and although the evidence was to a great extent partial, yet many valuable facts were adduced deserving of record in a work of this nature.

From the report of the transportation committee of the House of Commons in 1838, it appears that "75,200 convicts have been transported to New South Wales since its settlement in 1787 :- on the average of the last five years, 3,544 offenders have been annually sent there; and the whole convict population of the colony in 1836 amounted to 25,254 men and 2,577 women, in all 27,831. To Van Diemen's Island 27,759 convicts have been sent since the year 1817. the number annually transported there, on the average of the last five years, is 2,078. and the convict population in 1835 was 14,914 men and 2,054 women. At Norfolk Island the number of convicts, most of whom had been retransported for offences committed in New South Wales, was in 1837 above 1,200."

The plan formerly adopted in reference to Australian convicts is thus described by the transportation committee of 1838 —

"After sentence of transportation has been passed, convicts are sent to the hulks or gaols, where they remain till the period of their departure arrives board convict vessels the convicts are under the sole control of the surgeon-superintendent, who is furnished with instructions, as to his conduct, from the The precautions which have been taken Admiralty against disease, and the better discipline now preserved in these ships, have applied an effectual remedy to the physical evils of the long voyage to Australia, and prevented the mortality amongst the prisoners, which prevailed to a fearful extent during the earlier periods of transportation Little diminution, however, has taken place in those moral evils, which seem to be the necessary consequences of the close contact and communication between so many criminals, both during the period of confinement previous to embarkation, and during the weariness of a long voyage

" As soon as a convict vessel reaches its place of destination, a report is made by the surgeon-superintendent to the governor. A day is then appointed for the colonial secretary, or for his deputy, to go on board, to muster the convicts, and to hear their complaints if they have any to make The male convicts are, subsequently, removed to the convict barracks; the females to the penitentiaries. In New South Wales, however, regulations have lately been established, by which, in most cases, female convicts are enabled to proceed at once from the ship to private service. It is the duty of an officer, called the principal superintendent of convicts, to classify the newly-arrived convicts; the greater portion of whom are distributed amongst the settlers as assigned servants; the remainder are either retained in the employment of the government, or some few of them are sent to the penal settlements

"In 1836 the number of assigned convicts in Van Diemen's Land was 6,475; in New South Wales in 1835 the number was 20,207. In the earlier periods

of the colony of New South Wales the supply of convicts so much exceeded the demand for their services by the settlers, that the government used to grant certain indulgences to those settlers who were willing to maintain convicts. More recently, the de-mand has exceeded the supply; the obtaining convict labourers has become, therefore, to a certain degree a matter of favour, which has given rise to complaints of abuse in the distribution, especially of the more valuable convicts. All applications for convicts are now made to an officer, called the commissioner for the assignment of convict servants, who is guided in his distribution of them by certain government regulations Settlers, to whom convicts are assigned, are bound to send for them within a certain period of time, and to pay the sum of £1 a head for the clothing and bedding of each assigned convict. An assigned convict is entitled to a fixed amount of food and clothing, consisting, in New South Wales, of 12 lbs of wheat, or of an equivalent in flour and maize meal, 7 lbs of mutton or beef, or 41 lbs of salt pork, 2 oz of salt, and 2 oz of soap weekly, two frocks or jackets, three shirts, two pair of trousers, three pair of shoes, and a hat or a cap, annually Each man is likewise supplied with one good blanket, and a palliasse or wool mattress, which are considered the property of the master Any articles, which the master may supply beyond these, are voluntary indul-The allowance in Van Diemen's Land differs in some particulars, and on the whole is more liberal

" Male assigned convicts may be classed under the various heads of field labourers, domestic servants, and mechanics the services of the last class being of more value than those of the two former, are estimated in assignment as equal to those of two or more field labourers In the assignment of convicts scarcely any distinction is made either on account of the period of the sentence, or on account of the age, the character, or the nature of the offence of the convict. The previous occupation of a convict in this country mainly determines his condition in the penal colonies For instance, domestic servants, transported for any offence, are assigned as domestic servants in Austrafor the greater portion of such servants in those colonies, even in the establishments of the wealthiest classes, have hitherto been transported felons are well fed, well clothed, and receive wages from £10 to £15 a year, and are as well treated in respectable families, as similar descriptions of servants are in this country. In many instances, masters have even carried to an illegal extent their indulgences to their convict servants

" Convicts who are mechanics are as well, if not bet ter, treated than those who are domestic servants for as every kind of skilled labour is very scarce in New South Wales, a convict who has been a blacksmith, carpenter, mason, cooper, wheelwright, or gardener, is a most valuable servant, worth three or four ordinary convicts, he is eagerly sought after, and great interest is made to obtain him. As a mechanic can scarcely be compelled by punishment to exert his skill, it is for the interest of the master to conciliate his convict mechanic in order to induce him to work well, in too many cases this is effected by granting to the skilled convict various indulgences; by paying him wages, by allotting to him task-work, and by permitting him, after the performance of the task, to work on his own account, and, lastly, by conniving at, or overlooking, disorderly conduct, for the most skilful mechanics are generally the worst behaved and most drunken.

"The condition, however, of by far the most numerous class of convicts, those who are employed as shepherds or neatherds (of whom in 1837 there were above 8,000 in New South Wales), and m agriculture generally, is undoubtedly inferior to that of a convict who is either a domestic servant or a mechanic; they are, however, according to most of the witnesses, better fed than the generality of agricultural labourers in this country; most masters either pay them wages in money, or give them, instead of money, tea, sugar, tobacco, spirits, and other trifling indulgences.

"On the whole, therefore, your committee may

"On the whole, therefore, your committee may assert that, in the families of well-conducted and respectable settlers, the condition of assigned convicts is much the same as the condition of similar descriptions of servants in this country; but this is by no means the case in the establishments of all settlers. As the lot of a slave depends upon the character of his master, so the condition of a convict depends upon the temper and disposition of the settler to whom he is assigned."

The act 5 Geo. IV., c. 84, gave the governor of a penal colony a property in the services of a transported offender for the period of his sentence, and authorized him to assign over such offender to any other person. There was a further power given to the governor by the act 30 Geo. III., c. 47, who, in the name of his Majesty, was authorized to remit absolutely or conditionally, the whole of the sentences of convicts; and the 9 Geo. IV., c. 83, empowered the governor to grant a temporary or partial remission of sentence; this power was limited by acts 2 & 3 Wm. IV., c. 62.

By the system in force in New South Wales "tickets of leave," which enabled a convict to live free, and work on his own account, within a prescribed district, (binding him to appear on Sundays before a magistrate), were granted to a seven-year convict, at the expiration of four years; for fourteen years at the end of six years, and for life at the end of eight years, unless his conduct during these periods had been very bad. tickets of leave were hable to be cancelled, if the holder committed any offence for which he was punishable by a magistrate; and the effects of the system are thus recorded in the report of the committee of the House of Commons in 1838, p. xvii.:-

"This indulgence on the whole has a very useful effect, as it holds out hope to a convet if he behave well, and is liable to be reassumed in case of misconduct. Taket-of-leave men find no difficulty in obtaining work at high wages; and having acquired experience in the colony, they are frequently preferred to lately-arrived emigrants. They fill many situations of trust in both colonies; such, for instance, as constables in the police, overseers of road-parties and chain-gangs; the better educated have been employed as superintendents of estates, as clerks to bankers, to lawyers and to shopkeepers, and even as tutors in private families; some have married free women, are in prosperous circumstances, and have even become

wealthy; and the real editor of one of the leading journals in the colony of New South Wales was a ticket-of-leave convict."

Many of the "ticket-of-leave" men, or those who obtained conditional or local pardons for long-continued good conduct, or for useful services, acquired large fortunes; one. named Sam Terry, possessed, it is said, an income of £40,000 a year; I rode over a large estate belonging to him on the beautiful banks of the Nepean river, the greater part of which was under cultivation, growing wheat, barley, oats, maize, clover, peas, beans, and other valuable products; it had also extensive herds of fine cattle and flocks of sheep: but the habitation of the owner of this vast property-with wealth then estimated at a quarter of a million sterlingwas mean in the extreme. He could not, I believe, either read or write, but he had nevertheless a quickness of apprehension and a readiness in detecting errors in the accounts of his overseers which was so remarkable, that, as was said of Hyder Alı (the father of Tippoo Sultan) who also could neither read nor write, no man attempted to deceive him.

This and other instances becoming known, transportation to "Botany Bay" was deemed a very trifling punishment. The evidence laid before the House of Commons in 1837–8 proved the reverse, and the committee thus condense that evidence:—

"Your committee consider, that in the preceding pages they have fully established the fact, that transportation is not a simple punishment, but rather a series of punishments, embracing every degree of human suffering, from the lowest, consisting of a slight restraint upon the freedom of action, to the highest, consisting of long and tedious torture; and that the average amount of pain inflicted upon offenders, in consequence of a sentence of transportation, is very considerable. The most important question, however, as to the efficacy of transportation as a punishment, is not with regard to the actual amount of pain inflicted, but the amount which those who are likely to commit crime, believe to be inflicted It is proved, beyond a doubt, by the testimony of every witness best acquainted with the actual condition of convicts, and likewise by numerous facts stated in the evidence, that most persons in this country, whether belonging to the criminal population, or connected with the administration of justice, are ignorant of the real amount of suffering inflicted upon a transported felon, and underrate the severity of the punishment of transportation Nor is this to be wondered at, when it is considered, that the penal colonies are 16,000 miles distant, and that the ignorant mass of the criminal population of this country are often misled by their evil passions to underrate the consequences of their evil deeds. On their arrival at the antipodes, they discover that they have been grievously deceived by the accounts transmitted to them, and that their condition is a far more painful one than they expected. For those convicts

who write to their friends an account of their own at Macquarie Harbour, for the years 1822, fate, are generally persons who have been fortunate in the lottery of punishment, and truly describe their lot in flattering terms; those, on the other hand, who really experience the evils of transportation, and are haunted with 'a continual sense of degradation,' are seldom inclined to narrate their sufferings except when they have powerful friends from whom they may expect assistance Numerous instances, likewise, were mentioned of convicts, who, degraded and demoralized by their punishment, have, from feelings of anger and revenge, indulged in the malicious satisfaction of denying the efficacy of the law, and of braving those who had brought them to condemnation, by describing as pleasures the tortures they were enduring; by affecting indifference for a punishment, which other criminals were actually committing murder and seeking death in order to avoid Thus it is proved by the most irrefragable testimony, that both those who are prosperous and those who are miserable, the drawers of prizes and the drawers of blanks in this strange lottery, influenced perhaps by that desire, common to human nature, of having companions and partakers whether of misery or of happiness, concur in tempting their friends in this country, by the most alluring descriptions, to come out and join them, thereby tending to diminish the little apprehension, if any, which is entertained by the lower orders for the punishment of transportation

"Transportation, though chiefly dreaded as exile, undoubtedly is much more than exile, it is slavery as well; and the condition of the convict slave is frequently a very miserable one, but that condition is unknown, and cannot be made known for the physical condition of a convict is generally better than that of an agricultural labourer, the former is, in most cases, better fed and better clothed than the latter, it is the restraint on freedom of action, the degradation of slavery, and the other moral evils, which chiefly constitute the pains of transportation, and of which no description can convey an adequate idea to that class in whom transportation ought to

inspire terror

A magistrate, generally himself a master of convicts, was authorized to inflict fifty lashes on a convict for "drunkenness, disobedience of orders, neglect of work, absconding, abusive language to his master or overseer, or any other disorderly or dishonest conduct " For these offences the convict might likewise be punished by imprisonment, solitary confinement, and labour in irons on the In 1835, the number of convicts in the colony did not exceed 28,000, the number of summary convictions for the year was 22,000; in one month, in 1833, the convicts flogged numbered 247, and the lashes administered were 9,874, which would give, for the year, 2,964 floggings, and 108,000 lashes inflicted. The report of 1838 is filled with horrible details of crimes and punishments, equally at variance with the of 116.

general character of Englishmen.

'23. '24, '25, and '26 -

In the Years	Number of Prisoners sentenced	Total Lashes sentenced	Lashes remitted	Total Lashes inflicted
1822	169	7.000	863	6,137
1823	229	9,925	825	9,100
1824	153	6,850	141	6,709
1825	112	5,211	494	4,716
1826	172	7,324	1,263	6,061
Total	835	36,310	3,586	32,723

Note—Settlement formed 3rd January, 1822, 70 male prisoners, 31st December, 1822, 181 prisoners at the settlement—31st December, 1823, 282 prisoners at the settlement—31st December, 1824, 262 prisoners at the settlement—31st December, 1825, 259 prisoners at the settlement—31st December, 1826, 295 prisoners at the settlement—31st December, 1826, 295 prisoners at the settlement—51st December, 1826, 295 prisoners at the settlement —51st December

Thirty-two thousand, seven hundred and twenty-three lashes inflicted in five years! On an average, nearly forty lashes to each of the prisoners; and, be it remembered. with a "cat-o'-nine-tails," with nine knots on each tail, and of a heavier weight than any "cat" used in the army or navy.

The extreme severities exercised at Norfolk Island—the penal dependency of New South Wales, were fearful, and the transportation committee of 1837-38, reported the evil effects of such a system in language which cannot be transferred to these pages. The committee add, that at the penal settlements of Van Diemen's Island, the severity of the system pursued is as great, if not greater, than that at Norfolk Island, and the culprits equally reckless, if not even more so-committing murder (to use the words of sir George Arthur), "in order to enjoy the excitement of being sent up to Hobart Town for trial, though aware that, in the ordinary course, they must be executed within a fortnight after arrival." one of these settlements, named Macquarie Harbour, (now abandoned) 116 convicts absconded, between 3rd January, 1822, and 16th May, 1827; of these, seventy-six are supposed to have perished in the woods: one was hanged for murdering and eating his companion; two were shot by the military; eight are known to have been murdered, and six eaten by their companions, twenty-four escaped to the settled districts, thirteen of whom were hanged for bushranging, and two for murder-total, 101 out

Perhaps no better illustration could be The fearful extent to which corporal given of the manner in which the local punishment was carried is shewn in the government of New South Wales viewed the following numerical return of flagellations sabbath, more than half a century after the in the evidence before the House of Commons' committee of February, 1838, of the very reverend William Ullathorne, (p. 21), who savs-

"I visited a chain-gang, near Paramatta, on a Sunday, for the purpose of administering religious consolation, and when I came to the gang I found a series of boxes, and when the men were turned out, I was astonished to find the numbers that were turned out of each of those boxes; I could not have supposed that those boxes could have held such a number. I found that they were locked up there during the whole of the Sunday; likewise during the whole of the time from sunset to sunrise On looking into those boxes, I found that there was a ledge on On looking each side, and that the men were piled upon the ledges, and others below on the floor, and I believe from the bringing together of such numbers of men, heated as they are and excited, the consequences are of a very immoral kind As I left the colony, I put a question to a clergyman, who has had much expemence there, as to the space allowed to each convict in those boxes; the answer given was, that the average was about eighteen inches each man, but that they varied considerably. Eighteen inches square p-Yes; there are two shelves, so that some are piled above, and some below. He stated to me at the same time, that in the hulks he believed it was not more than sixteen inches, and that they were so closely piled, some ten or fourteen being put in a small cell, that they had not room to lie on their backs, and were obliged to he sidewise You have stated to the committee the condition of the male convicts; what is the condition and conduct of the female convicts. —The conduct of the females is very bad indeed; indeed they are, I should say, more irreformable than the male convicts; when a woman 18 bad, she is generally very bad "

By this herding together of criminals, the best were brought down to a level with the worst in disposition and corruption, and the finishing stroke was thereby given to the terrible system of severity only too frequently practised. Local magistrates being empowered to scourge the criminals at will; a look, a word, caused the scourge to be immediately administered to the unhappy offender—who sought his revenge in the murder of his master or the overseer-in the burning of his house and farm-stacks, and in the poisoning of the cattle; or the delinquent fled to the wild districts, became a bushranger, and was soon captured, and executed on the scaffold.

I saw and conversed with ten criminals in their condemned cells, on the eve of their execution. They had never heard the word of God preached since the period of their childhood, some not even then; they had never entered a church or chapel in the colony, or attended a sabbath service; and they had fled to the bush because their backs

foundation of the colony, than is contained had been repeatedly bared to the bone by constant scourgings. Having witnessed, while serving in the army and in the navy, the disastrous effects of subjecting men to the degrading torture inflicted on brutes, I bear my humble testimony in support of the evidence adduced before the transportation committee, that this species of punishment has had a most disastrous effect.

> One passage in the parliamentary evidence deserves record on this important subject: the witness (who had great experience on the subject) was asked the relative value of the mild or the coercive system. He replied,

"I believe that a system of coercion will never reform men; it may restrain them, from fear, so long as the coercion is suspended immediately over them, but I do not think that it can be at all productive of reform; I always find that where there is severe coercion the pride of man rises up against that coercion, and that he hardens himself, and that it is generally his boast among those with whom he is associated, that he can endure as long as his master can inflict. I do not think that the result of a severer system of coercion has been followed by a greater amount of reformation; and I think if the number of prisoners at present in Van Diemen's Land undergoing punishment for new crimes in that country be inquired into, it will be found that the result has not been to reform I find that in the year 1835 the number of male convicts in Van Diemen's Land was 15,724; of this number I found that 3,947 were undergoing punishment at that time for new crimes in the colony, that is to say, about one-fourth, whilst I find at the same period that 2,462 enjoyed the indulgence of tickets of leave, they are somewhat less than one-sixth Of females, I find, in 1835, that there were 2,195, and of those 408 were in the house of correction, that is to say, one-fifth, and that only 192, or one-tenth, had the indulgence of tickets of leave. think, when it is considered how long that system has been in operation, if the result had been to reform, the first effects which would naturally result, viz. the greater number that would be under punishment, ought to have passed away, and that there ought to have been found very few comparatively under punishment, but if the number under punishment in Van Diemen's Land is compared to the number under punishment in New South Wales, I believe it will be found that the relative punishment is much greater in Van Diemen's Land than in New South Wales It might be said that the greater number under punishment is only in consequence of the system that a greater number of criminals are brought to punishment, and a smaller number escape, this certainly would be the case in the beginning of the system, but after the system had wrought for some years, if it had created reformation, there ought to have been a much less number under punishment. I would remark, likewise, with respect to the system of severity, that it tends in another way to induce bad conduct; when a prisoner finds himself so severely treated by his master, he will always be apt to imagine that in another situation he will be much less severely treated he will consequently be induced to behave particularly ill, in order to be returned to the government I believe it has been stated in the instructions to overseers of chain-gangs in Van Diemen's Land, that the prisoners are to be considered by them as under a sort of mental delirium; that they see all things through a false medium; in such a case, I should suppose that the prisoners who are under a severe system of coercion, would imagine that their condition could not possibly be worse, and the consequence would be that they would be induced to behave very ill, for the purpose of being removed from the service of their masters. I believe it has been found by experience that severe coercion has been productive of crimes of great magnitude; the quantity of bushrangers in Van Diemen's Land was at one time very great, and the number of executions was at one time extraordinarily great; and I found crimes exist-ing in Van Diemen's Land resulting indirectly from that severe system, of which I have known no cases in New South Wales; there have been cases where prisoners have been so coerced in Van Diemen's Land that they have been determined at any cost whatever to release themselves from it, they have broken from their confinement, and after plundering the cottages and making to the woods, finding that they could not dare to appear again, they have had recourse to cannibalism for subsistence. I remember one particular case, which produced a great impression, when that coercive system was at its height at Macquarie Harbour, eleven men broke away, and finding that the police were in chase after them, they retired into the

To the credit of the colonists, be it said, that they lost no time in earnestly appealing to the imperial government, as soon as the urgency of the matter was comprehended. A petition was transmitted to the House of Commons, in 1836, from six members of the Legislative Council, fifty-seven justices of the peace, four clergymen, five solicitors, 355 landholders, merchants, and other colonists, in which the petitioners stated, that although the colony presented an aspect of extraordinary and unexampled prosperity, the best interests of the community were threatened with serious danger, by the fearful increase of crime which had, of late years, The petitioners taken place in the colony. considered that the existing colonial law for the regulation of juries, by admitting persons to sit as jurors who had undergone punishment for crime, and were of bad repute, did not guard the administration of justice from sinister and contaminating influ ence, and that its natural effect was to New South Wales had encourage crime. not then an elective House of Assembly and its Legislative Council, until 1842, was wholly nominated by the Crown; the colo nists, therefore, were almost entirely de pendent on the authorities in England for the regulation of their internal affairs, and consequently various other local grievances were laid before the House of Commons in their petition; themselves, however, taking the initiative in supplying their spiritual wants.

In 1836, an act was unanimously passed v the Legislative Council of New South Wales, to promote the building of churches and chapels, and to provide for the maintenance of religion in the colony; and, in the language of the governor, Sir Richard Bourke, to Lord Glenelg, his Majesty's secretary for the colonies, 14th September, 1836, "the measure met with the sincere nd grateful acquiescence of all classes of the community." By this act, whenever a sum of not less than £300 was raised by private contribution, and applied towards the building of a church or chapel, and a dwelling for the minister attached, the governor and council were authorized to ssue a sum equal to that subscribed towards the church or chapel, and the building for the resident minister. The governor and council were also empowered to grant unto duly appointed ministers, salaries varying from £100 per annum for 100 adults, to £150 and £200 per annum for a resident population of 150 or 200 adults. There are other favourable provisions in the enactment which was applicable to the church of England, church of Scotland, and church of The colonists also provided for the passage, from the United Kingdom to Australia, of ministers of the gospel of the three denominations named, at the rate of £100 for single men, and £150 for those who were married, and twelve clergymen of the established church were immediately sent to New South Wales, under the recommendation of the Society for the Propagation of the Gospel; twelve presbyterian ministers, under the recommendation of the General Assembly of the church of Scotland, and of the Synod of Ulster; and seven ministers of the church of Rome, recommended by the authorities of their church, were also sent out by government in 1837, conformable to the local enactment in New South Wales in 1836. Three German missionaries of the Lutheran church were also, in 1837, sent to New South Wales, at the expense of the colonists, who were to be employed in a mission for the religious instruction of the aborigines.

In order to carry out a general system of gratutous education for the poorer classes of the community, the colonists, in June, 1837, defrayed the expenses of obtaining from England well-qualified and respectable schoolmasters and mistresses, to whom an allowance of £100 to £150 was granted and a salary of £150 a-year for a master,

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£100 for his wife, and a small dwellinghouse was allowed. Under these provisions, nouse was allowed. Under these provisions, glous instruction, and the liberal contributions which has Majesty's government sent out, in 1837, sixteen teachers, carefully selected by the "Glasgow Educational Society." Six male, advancement of virtue and religion amongst them and four female teachers were sent by her Majesty's government, for the education of poor Roman catholics, under the recommendation of the Rev. W. Ullathorne; and, from time to time, many ministers of the gospel and teachers have proceeded to New South Wales, whose expenses have been defrayed from the local revenue.

In July, 1838, the evidence delivered before the transportation committee of the House of Commons, during the session of 1837, reached New South Wales, and produced "very considerable sensation;" and a petation, signed by "sixty-seven magistrates, and above 500 individuals of great respectability," was immediately presented to the governor, praying the appointment of a committee of the Legislative Council, to inquire into the working of the system of transportation and assignment, with a view to counteract, as far as possible, the evil impressions which might have been produced in England in respect to the social and moral condition of the colony. The Legislative Council, after protracted debates, negatived the prayer of the petition, from an apprehension that such an enquiry would tend to revive animosities in the colony which had happily, in a great degree, subsided; but the Council expressed its opinions by a series of resolutions, to be laid before both houses of the Imperial Legislature; and for this purpose they were transmitted, with the entire approbation of the governor, to her Majesty's secretary of state in the colonial department. It is an act of simple justice to place on record a declaration so highly creditable to the colony.

" Resolved-That in the opinion of this council, the numerous free emigrants of character and capital, including many officers of the army and navy, and East India Company's service, who have settled in the colony with their families, together with a rising generation of native-born subjects, constitute a body of colonists, who, in the exercise of the social and moral relations of life, are not inferior to the inhabitants of any other dependency of the British crown, and are sufficient to impress a character of respectability upon the colony at large

"5. Resolved-That the rapid and increasing ad vance of this colony, in the short space of fifty years from its first establishment, in rural, commercial, and financial prosperity, proves indisputably the activity, the enterprise, and industry of the colonists, and is wholly incompatible with the state of society represented to exist here.

"6. Resolved-That the strong desire manifested by the colonists generally to obtain moral and reli-

is regarded with becoming solicitude.

"7. Resolved—That if transportation and assignment have hitherto failed to produce all the good effects anticipated by their projectors, such failure may be traced to circumstances, many of which are no longer in existence, whilst others are in rapid progress of amendment. Amongst the most prominent causes of failure may be adduced the absence, at the first establishment of the colony, of adequate religious and moral instruction, and the want of proper means of classification in the several gaols throughout the colony, as well as of a sufficient number of free emigrants properly qualified to become the assignees of convicts, and to be entrusted with their management and control

"8. Resolved-That the great extension which has latterly been afforded of moral and religious instruction, the classification which may in future be made in the numerous gaols now in progress of erection, upon the most approved principles of inspection and separation, the more effectual punishment and classification of offenders in ironed gangs, according to their improved system of management, the numerous free emigrants now eligible as the assignees of convicts, and the accumulated experience of half a century, form a combination of circumstances which renders the colony better adapted, at the present, than at any former period, to carry into effect the praiseworthy intentions of the first founders of the system of transportation and assignment, which had no less for its object reformation of character, than a just infliction of punishment.

"9 Resolved That in the opinion of this council, no system of penal discipline or secondary punishment will be found at once so cheap, so effective, and so reformatory, as that of well-regulated assignment, the good conduct of the convict, and his continuance at labour being so obviously the interest of the assignee, whilst the partial solitude and privations uncidental to a pastoral or agricultural life in the remote districts of the colony, (which may be made the universal employment of convicts), by effectually breaking a connexion with companions and habits of vice, is better calculated than any other system to produce moral reformation, when accompanied by

adequate religious instruction.
"10 Resolved—That in the opinion of this council, many men who, previously to their conviction, had been brought up in habits of idleness and vice, have acquired, by means of assignment, not only habits of industry and labour, but the knowledge of a remunerative employment, which, on becoming free, forms a strong inducement to continue in an honest course of

The details respecting the ecclesiastical establishment, schools, and state of crime, which will be found in a subsequent chapter, prove the correctness of the assertions contained in the above resolutions of the Legislative Council. New South Wales is now as little tainted with vice or crime as any other colony of the British crown.

At the commencement of 1839, the clergy-

men doing parochial duty in the colony under the jurisdiction of the Bishop of Australia (who was nominated in 1835) amounted to thirty-three. The number of Presbyteman clergymen was twenty-three; and of Roman catholic clergymen (including a bishop, nominated in 1835) borne upon the ecclesiastical establishment, was twenty. The number of missionaries attached to the Wesleyan mission was six; of baptist pastors five; and there was besides one "independent" minister. There were also several missionaries specially employed among the Aborigmes. This affords a gratifying contrast to the state of the colony a few years previous. The result of these mentorious exertions on the part of the colonists, who bore the whole of the expense, was a rapid diminution of crime, and a marked improvement in the religious demeanour and social condition of the whole population.

In 1840, an order in Council was issued respecting the transportation of convicts. which recorded that by an act passed in the fifth year of the reign of king George the Fourth, his Majesty was empowered, by and with the advice of his privy council, from time to time to appoint any place beyond the seas, either within or without his Majesty's dominions, to which felons under sentence of transportation should be conveyed. In pursuance of the powers of this act, "New South Wales, Van Diemen's Land, and all islands adjacent thereto," were, on the 23rd June, 1824, appointed to be the places to which felons and others under sentence of transportation were to be conveyed By the above-named order in Council, it was decreed that from and after the 1st August, 1840, "Van Diemen's Land, Norfolk Island, and the islands adjacent to, and comprised within, the government of Van Diemen's Land," should in future be the places to which felons and other offenders in the United Kingdom be conveyed, under sentence or order of trans-From that date transportation portation. to New South Wales ceased.

the House of Commons on transportation, gazine, I stated my regret at being unable recommended that "transportation to New South Wales, and to the settled districts of Van Diemen's island, should be discontinued as soon as practicable." The early adoption of this recommendation became public lands offered for sale by auction; and, essential to the well-being of the colony, among other grounds, I differed with them, from the large and increasing influx of 1st.—" By reason of the nature of the soil convicts compared with the free immigrants. in Australia, it being extremely difficult to It will be seen by the accompanying table, find good land in large continuous tracts; that during the ten years ending 1834, the a rich fertile black mould of a few hundred

number of convicts transported to New South Wales was 28,983, while the emigrants from this country were only 7,585.

Comparative Statement of the Number of Convicts arrived in New South Wales from 1825 to 1834, and of Free Emigrants from 1829 to 1834

Year.	English		Irash		Tot	Fr	ee En	nigrants		
	Male	Fem	Male	Fem		Male	Fem	Chil	Potel	
1825	764	140	901	111	1916		,	V = K = 1		
1826	679	-	1036	100	1815					
1827	1239	342	846	160	2587					
1828	1589	179	752	192	271					
1829	2008	319	1163	174	3664	306	113	11	564	
1830	2096	128	685	316	3225	166	70	73	309	
1831	1437	206	692	298	2633	185	98	174	457	
1832	1810	248	928	133	3119	819	706	481	2006	
1833	2719	377	794	261	4151	838	1146	701	2885	
1834	1923	284	781	173	3161	571	596	397	1564	

Total 16264 2223 | 8578 | 1918 | 28983 2885 | 2729 | 1971 | 7585

THE GRANT AND SALE OF CROWN LANDS is intimately connected with the past and present state of New South Wales, and the subject has occupied the attention of statesmen in England for twenty years, not merely as regards the amount of local revenue derivable from the sale of those lands, but as a means for the proportionate adjustment of land, labour, and capital, which, wisely used, may enable the government efficiently to promote emigration from the United Kingdom to those colonics in the temperate zone where British subjects can labour as at home, and obtain for that labour a more ample reward than could reasonably be expected in the crowded condition of the labour market in England. It may be necessary to premise, that there is little difference of opinion as to the injurious effects of granting large blocks of land to a few individuals, most persons agree in the advisability of the crown lands being sold in small sections, and put up for auction at The collision of a fixed minimum price. opinion has reference chiefly to what that fixed minimum price should be in the several colonies, or in the same colony in different stages of its progress

In the History of the Colonies (vol. iv.), In August, 1838, the select committee of published in 1835, and in the Colonial Mato agree with the founders of the colony of South Australia, in their resolve to obtain the assent of her Majesty's government to fix a minimum price of 12s. per acre on all

would check emigration." 5th.—"That the made it their home. settlers would, of necessity, spread themcontrol their proceedings—and an excessive dispersion of population, instead of concenthe following abstract of the proceedings con-Wales since the foundation of that settlement.

In 1790 (13th February), captain Phillip, then governor of New South Wales, in a letter to lord Sydney, recommended that grants of land, consisting of 500 to 1,000 acres, should be given to such settlers as his Majesty's government might send out to the colony; and, as the labour of clearing the ground of timber was very great, that each settler should have the services of twenty convicts allowed him, who should be supported for two years from the public stores The inducements held out to officers and soldiers to become settlers, by grants of land, was strongly seconded by every possible encouragement to turn farmers, in order to render the settlement independent of any foreign aid for the supply of the necessaries of life. For this end land was freely granted, though not in large sections, to all classes, free or bond, in or out of the public service, who appeared capable of cultivating it; and convicts who thus exrted themselves received their freedom and a farm, as their reward.

The civil and military officers obtained large tracts; but in 1818 an order was issued to the governor of New South Wales to discontinue the practice of giving land to public officers whilst in the service; this regulation was afterwards relaxed, and public officers were placed on the same footing as settlers, in this respect, which appears to have been

acres will sometimes be found suddenly in- part of the landed property of the colony terrupted by several thousand acres of a would have been vested in the hands of sandy scrubby ridge, far worse than Hamp- emancipated convicts and their descendants, stead Heath." 2nd.—"A farmer could not to the exclusion of the educated and higher afford 12s. per acre for the purchase of land, classes of colonial society. Most of the civil when 300 sheep would require upwards of and military officers invested their savings 1,000 acres for pasturage." 3rd.—" The in land; many retired from the service of principle of concentration which it was sought the crown, and became extensive farmers to establish, by causing all land taken up to and graziers, and some of the finest estates be cultivated, might be established, if the in New South Wales, which, both in the whole of Australia were like the fertile deltas style of the mansions and the improvement of the Ganges or Nile; but that such was of the land, would be an honour to any not the case, and Australia was better county in England, belong to the families of adapted for a pastoral than an agricultural the civil, military, and naval officers who, in country." 4th.—"Too high a price for land the early and suffering days of the colony,

Up to the year 1823, the governor of selves over the distant unoccupied lands with New South Wales and Van Diemen's Island their flocks and herds-no government could had the power of granting land to free settlers, and (as a reward to good behaviour) to convicts. When a convict was pardoned, tration, would be the result." How far this the governor gave, to each male, a grant of ominion has been verified, will be seen from twenty acres; if married, twenty more; and to each child in the settlement, ten acres, nected with the "land question" in New South free from all charge for ten years; after which, a quit-rent of sixpence for thirty acres was levied. To each free settler the governor could make grants of land to the same extent as to convicts, and grant them 100 acres additional. The governor might make larger grants to both convicts and free settlers; but, for such grants, it was necessary to obtain the special approval of the secretary of state Not unfrequently, also, rations were allowed, from the public stores, to free settlers as well as to the emancipists, until they could raise sufficient food from The power vested in the governor the soil. was extensively exercised. Up to the year 1810, the successive governors of New South Wales had given to individuals, principally to settlers who had been convicts, 177,500 acres, in grants seldom exceeding 100 acres; and it must be acknowledged, that the colony was largely indebted to this class for the production of an annually-increasing quantity of food, which rendered the inhabitants independent of foreign supplies. visited many of the small farmers in the districts between the Hawkesbury river and Sydney, who had been pardoned by the several governors of New South Wales, or who, on completing their allotted period of servitude, had received free grants of land under 100 acres. In almost every instance I found industry, frugality, and order; in many, a deep regret for the sins of their strongly advisable, otherwise, the greater youth, and an earnest desire that their chil-

uring a year.

pany have relieved the treasury from a harge equal to £100,000, to be calculated it the rate of £20 for each convict supported

dren should be trained in the path of religion. The forest was being gradually cleared around the log-huts; in various places the comfortable brick tenement had been raised. and the neat garden paled, while the full haggard and the lowing kine gave indications of a comfortable homestead. The free grant of these small tracts of land has been the means, under Providence, of permanently reclaiming many a sinner from the errors of his ways: a piece of land-although covered with a dense forest-which he could call his own, converted him from an avowed enemy of society, into one of its most strenuous defenders; he found, by experience, that honesty was the best policy; and his children learnt, from the lips of their parents, to revere the laws and institutions of the country whose wise and merciful policy produced such beneficial results.

There can be no doubt that land was too freely granted in New South Wales. Up to the year 1823, persons emigrating from England took with them letters from the secretary of state to the governor, directing land to be granted to the intending settler according to his means. Governor Macquarie fixed 2,000 acres as the maximum of grants, unless the secretary of state directed a larger quantity to be given. A number of grants were made of 10,000 to 20.000 acres Mr. Potter Macqueen, then M.P., received a grant of 10,000 acres, and a reserve of 10,000; Mr. Hart Davis, then M.P., and Mr. H. Davis, jun, 15,000 each Sir Thomas Brisbane, the marquis of Sligo and Mr. J. Browne, 10,000 acres each with reserves of 10,000 more each. (See Parliamentary Committee evidence, 11th July, 1836.) No condition of residence was 11th attached to these grants.

In 1824 (1st October), an association termed the Australian Agricultural Company, received a free grant of one million acres, on the following conditions:-After five years a quit-rent of 11 per cent. on the land, to be valued at 1s. 6d. per acre—payment every five years; power to redeem, on pay ment of twenty times the value of the quit rent to be redeemed; to employ a numbe of convicts equal to the number of free labourers; one free superintendent to every fifty convicts; no land to be alienated fo five years; quit-rent to be redeemed by the employment of a certain number of convicts and the whole amount of quit-rent to be redeemed, if, within twenty years from the date of grant, it shall appear that the com

From 1810 to 1822, during the administration of governor Macquarie, 400,000 acres were granted to free settlers and emancipists. From 1822 to 1831, when the plan of public sale was systematically introduced. he number of acres granted was about ,386,250. Up to the 31st December, 1834, he total number granted in the colony was 4.163,353 acres. The conditions attached o these grants were various. According to he evidence of Mr. H. S. Kelsey, of the colonial office, before the House of Commons' committee of 1836, lands granted prenous to November, 1823, were hable, at he end of ten years, to a quit-rent of 2s or every 100 acres between November, 1823, and May, 1825; at the end of five ears to a quit-rent of 15s. for every 100 acres; and also, during the latter period, ands sold were hable to a quit-rent of 2s. for every 100 acres; lands granted since May, 1825, were hable, at the end of seven years, to a quit-rent of 16s. 8d. per 100 acres. Very little attention, however, was paid to the collection of the guit-rents. When in the colonial secretary's office in New South Wales, I strongly urged the yearly collection of these accumulating sums the amount due for ourt-rents was estimated at £16,552; in 1846, at £69,000. In some cases, twenty-five years' quit-rent were due; in others, the arrears amounted to more than the value of the land.

In 1824 regulations for grants of land in New South Wales and Van Diemen's Land were issued by her Majesty's government, which announced that New South Wales and Van Diemen's Island were to be divided into counties, hundreds, and parishes, each parish to comprise an area of about twentyfive miles. A valuation to be made of all the lands in the colony, and an average price to be struck for each parish. All lands in the colony not hitherto granted to be p t up for sale at a price to be fixed by the said commissioners; the largest quantity to be sold to one individual, 9,600 acres; the lots to be put up for sale in quantities of three square miles-1,920 acres. Any purchaser who, within ten years after his purchase, should, by the employment and maintenance of convicts, have relieved the public from a charge equal to ten times the amount of the purchase money, would have the purThe saving to the public on each convict was estimated as equivalent to £16 per annum.

No grants to be made without purchase, grantee h d both the power and the intention of expending in the cultivation of the land a capital equal to half the estimated grant, without purchase, to be 2,560 acres; to be fixed upon the land granted without A nominal quit-rent of a peppercorn to be made for lands purchased in fee-Quit-rents not to be payable on grants for seven years; and in the redemption of the quit-rent at twenty years' purchase, the grantee to have credit for onement and maintenance of convicts.

In April, 1827, further instructions were state for the colonies, in Downing Street, respecting the terms upon which land would be granted in New South Wales and Van Diemen's Island. Those terms corresponded with the foregoing, and it was stated, that persons who had obtained leave to become purchasers were to send in sealed tenders for the land advertised to be sold, and the highest bidder, if approved by the governor, One-fourth of to become the proprietor. the value of the land, estimated at the time of the grant, to be expended in the cultivation and improvement of the land, within seven years, under penalty of forfeiture The amount of capital which was to be a criterion of the quantity of land to be granted, was £500 for a square mile-640 acres.

In 1828, Mr. Huskisson, then secretary of state for the colonies, laid before the Duke of Wellington, then first lord of the treasury, a proposition for the establishment of a metropolitan Colonial Land Board; the Duke assented, on condition that the board did not involve the revenues of the British exchequer in additional expense; to which Mr. Huskisson replied, that it would, on the contrary, create an additional source of review the system which had been for some years successfully adopted in the United States, of selling the public lands at a moderate fixed price per acre; formerly, the Ame-

chase money returned, but without interest. was fixed at one dollar and twenty-five cents per acre; it is now, I believe, only one dollar. equal to fifty pence, per acre. The late Sir Wilmot Horton looked to the sale of the unless the governor were satisfied that the crown lands in the colonies as a means of raising a fund to promote emigration.

In 1831 instructions were issued under the royal sign manual (see p. 3, sess. paper of value of it, within seven years. The largest 1831, No. 328), directing, that for the future, land should be put up for auction at a minithe smallest, 320 acres. A quit-rent of five mum upset price of 5s. per acre. These per cent, per acre upon the estimated value regulations came into operation in the middle of the year 1831. Under them, the system of reserving land for ecclesiastical purposes was abolished, and the church and school corporation of New South Wales (which, in 1829, received 419,199 acres,) was dissolved. Simultaneously with the raising the price of land to 5s per acre, all unoccupied lands fifth part of the sum he might have saved to within the prescribed limits were authorized his Majesty's government, by the employ- to be let on lease, in conformity with the following instructions:-

"All crown lands within the prescribed limits will, issued from the office of the secretary of if applied for, be let by auction, in lots of one square mile, or 640 acres each, as nearly as practicable Persons desirous of renting such lands, will address themselves to the surveyor-general, taking care to describe accurately the situation of each section applied for The lands so applied for will be advertised for one month, and the lease of each lot for one year will then be put up to public auction lot consisting of less than one square mile, or 640 acres, will be let, except in special cases, which may render expedient a departure from this rule. Each lot will be put up at a rent of 20s a-year, and the highest bidding (not less than that sum) will be accepted. It is to be distinctly understood that the lands so let will be open for purchase, and in the event of their being sold, must be surrendered by the lessee upon one month's notice."

> It was proposed during this year, by lord Howick (now earl Grey), then under secretary of state for the colonies, to apply the net revenue arising from the sale of lands in New South Wales in encouraging female emigration; and during the years 1832-35 there were sent to New South Wales and Van Diemen's Island 2,972 female emigrants, at a cost of £42,070.

During the years 1832, '3, '4, and '5, the colonies began to form a prominent subject of public discussion; political agitation in England, distress in Ireland, and the rapid increase of population, had turned the atten-Mr. Huskisson evidently had in tion of thinking men to providing a permanent safety valve for the state by a system of continuous emigration from the United Kingdom.

In 1836 (10th June), a select committee rican government put up their land at two of the House of Commons was appointed to dollars per acre; in 1820 the upset price enquire into the method of disposing of

waste lands in the colonies; but it is apparent from the list of the committee, and the well known opinions of the witnesses examined, that the evidence to be elicited was such as would be calculated to support a foregone conclusion. None of the members of the committee, except Mr. Roebuck, had ever been in any colony; the principal witnesses were Mr. Edward Gibbon Wakefield, and colonel Torrens, who were then engaged in the laudable effort to found the colony of South Australia on self-supporting principles, but who I think erroneously endeavoured to support their policy by fixing a high price on land; the sums thus received to be employed in conveying labour to the colony. None of the witnesses examined had ever been in Australia; two (captain Wood and Mr Bryan) had been in Van Diemen's island, -one (Mr. George Stephenson) had been in the United States, and one (Mr Burnly) in Trinidad. In the report of the committee (dated 10th August, 1836) it is stated, that since the year 1795 the sales of waste lands in the United States had produced the sum of £12.439.049, and that all land is offered for sale by auction at an upset price fixed by the legislature; the committee, however, omitted to state in their report that the price seldom exceeded 5s per acre. They recommended that the principle introduced by the Earl of Ripon's regulations of 1831, namely, that land should be disposed of by auction at a minimum upset price—should be affirmed by an act of the Legislature, in order to give this principle a character of permanency and stability which it did not then possess. But the committee abstained from stating what that minimum price should be, as it must vary according to the circumstances of each colony, and "can only be determined in any one by the test of experience."

Mr. E. G. Wakefield proposed before this parliamentary committee that a "sufficient price" should be fixed on the colonial lands, but he declined stating what that sufficient price ought to be. Colonel Torrens, who, as chief commissioner of the South Australian association, has carried out some of Mr. Wakefield's views, gave his opinion of the "sufficient price" as at least 40s. an acre.

Mr. G. P. Scrope, M.P., in his valuable licence had been found irresistible; that the evidence before the committee (7th July, "responsibility of the colonists rested with 1836), stated that supposing the theory themselves, who must have been prepared for the Competition of unauthorized occupractical adoption of the theory would be pants of the soil on the surface of that vast continent, and that it was a danger not coning reasons:—1st, Emigration would be cealed from the colonists at the very outset

checked to New South Wales by demanding a price for land much exceeding the terms on which land of equal fertility could be obtained in the United States. 2nd, That "a high price would prevent the colonists obtaining land: they would be driven to settle as squatters, and appropriate to themselves the occupation or use for a certain period of the land denied them to purchase, except at an extravagant rate." The arguments of Mr. Scrope, and the facts by which they were supported, successfully combated the vague theories put forth by Mr. Wakefield and colonel Torrens. He (Mr. Scrope) entreated the committee to eschew Mr. Wakefield's "leading principle" of colonization as founded on a fallacy, and dangerous, if attempted to be carried into operation, to the very objects in view. he therefore urged them. to "adhere in the question of price to the safe and successful example of the United States."-adding, that he wished to see all the crown lands disposed of after the American system, at not less than a certain minimum price, and the entire proceeds of those sales to be appropriated to an immigration fund, to defray the gratuitous introduction. of labourers from the mother country.

In 1836 (12th October), after the committee of the House of Commons had closed its labours, colonel Torrens, as chairman of the South Australian commissioners, addressed a letter to Lord Glenelg, his Majesty's secretary of state for the colonies. objecting to the price of 5s., or any lesser sum, per acre for land in New South Wales and Port Phillip, while 12s. was the minimum price in South Australia, and urging that the labourers sent to South Australia would quit that colony for New South Wales if such an inequality in the price of land continued to exist in two adjoining colonies. Mr. (now Sir James) Stephen in an able reply to colonel Torrens, dated 27th October, 1836, stated on behalf of Lord Glenelg, that the persons who had embarked their property in South Australia knew perfectly well that 5s. per acre was the upset price in the immediately adjacent colonies; that on these terms (comparatively so low) the inducements to occupy large portions of land without licence had been found irresistible; that the "responsibility of the colonists rested with themselves, who must have been prepared continent, and that it was a danger not conletter that Mr. Stephen foresaw the injurious effects attendant on an endeavour to fix a high price for land in New South Wales. He stated that-

" For some years past his Majesty's government have steadfastly enforced the rule, which forbids the alienation of wild lands in New Holland except by sales at a public auction at a fixed minimum price; but they have always perceived that circumstances beyond their control would fix that minimum at a lower point than that which would be selected, if the discretion of the government in this matter were absolutely free and unfettered. In the remoter part of the vast regions comprised within the range of the Australian colonies, the power of the law is unavoid-ably feeble when opposed by the predominant inclinations of any large body of the people; in such a country unpopular regulations, unless supported by a force either of police or soldiery, irresistible and overwhelming, must become little more than a dead

"Thus, in New South Wales, the squatters (to employ the significant local term) find in the high upset price of land some of those advantages which a smuggler in other countries derives from a high rate of duty; their proceedings, instead of being condemned and opposed, are countenanced and supported by the society to which they belong, consequently an extensive territory, at a distance from the seat of government, has been occupied by unauthorised settlers of all classes, by the wealthy not less than by the poor; and, in this systematic violation of the law, each class finds support and encouragement in the example and common interest of its various members. With the most earnest desire to repress the growing evil, the local authorities have experienced the impossibility of making an effectual resistance to the general will"

Lord Glenelg, therefore, through the under secretary of state, Mr. Stephen, expressed his determination of not attempting to raise the price of land in New South Wales to the rate at which theorists wished it to be fixed at in South Australia; and stated that "even the fixed price of 5s. had afforded an irresistible temptation at Port Phillip to the unauthorised occupation of the soil; the governor (Sir R. Bourke) was consequently authorised to relax the rule of price at Port Phillip if he should find it indispensable to check the evil of the unlicensed occupation of the newly explored territory."

In 1837 (15th February) Lord Glenelg sent to Sir R. Bourke, then governor of New South Wales, the correspondence with colonel Torrens, and required a report how far the discretion of the local government had been exercised in fixing a higher rate than 5s. per acre as the upset price of lands supposed to be of peculiar value. Sir R. Bourke informed the secretary of state that in the first place the competition for land in the neighbourhood of Melbourne and Wil-

of their enterprize." It is evident from this liams' Town, Port Phillip, had caused the waste lands to be sold at a price which would prevent any further cause for alarm in the South Australian commissioners. regard to New South Wales, the government rightly considered that competition at public sale would always determine the real value of any allotments, and that the competition which was rapidly increasing would become more active as the colony advanced in wealth and population.

> In support of his opinion the governor adduced the following table, showing the average price of crown lands sold in the colony of New South Wales, for the five years ending the 31st December, 1836:-

Year	Town Alper H	Other Land per Acre			
		d		ď	
1832	2	10	6	0	
1833	2	4	9	6	
1834	6	2	6	8	
1835	5	2	5	10	
1836	4	2	6	2	

The opinions of Sir Richard Bourke on this highly important subject, not only in reference to New South Wales, but to all colonies with waste lands, so clearly indicate the evils which have since ensued from a disregard of those arguments, urged with all the weight of local experience, and enforced by sound reasoning, that I am induced to give them at full length. In testimony of their practical value, Mr. Justice Therry, who had been nineteen years in New South Wales, stated in his evidence before the House of Lords, 9th June, 1848, that governor Sir Richard Bourke, in the despatch of 1837, "anticipated the evils which have since resulted, and which would have been averted if the course he recommended had been abided by."

The governor thus reasoned:-

" If it be objected that such an effective competition as I have described, arising from increased population and wealth, in itself indicates the propriety of raising the minimum price of 1837 over that of 1831, I would observe, that the crown lands now in the market form only a surplus; in many instances they may be justly called a refuse, consisting of lands which in past years were not saleable at any price, and were not sought after even as free grants. As improvement and population penetrate through the colony, such lands begin to acquire a value, and there is a stage in this process in which they are saleable at the present minimum price of 5s. By declining in future to dispose of them at this rate, it by no means follows that they will be sold at a higher. The result may be to retain them for an indefinite time unsold. Such a result, as your lordship appears fully aware.

is the more likely, or rather certain, in consequence of the alternative at the settler's command of wandering without authority or restraint with his flocks and herds over the vast tracts of the interior facility in acquiring the actual property of land at a low price is the safest check to this practice, and it may here be observed, that the unauthorised occupiers of remote crown lands do not wholly consist of small flock-owners of slender means, but of the agents and shepherds of the wealthiest colonists residing within the limits of location, who are continually balancing between the opposite motives presented by the cheapness of unauthorised occupation on the one hand, and the desire of adding to their permanent property in land on the other. The extent of their purchases at the government sales corresponds with the prevalence of the latter motive, and it is easy to see that its influence must be weakened in proportion to the augmentation of the upset price

" But though I am convinced that in almost every case the present value of land is obtained by means of the competition excited by public sales, yet it is possible that an augmentation of the minimum price would have the injurious effect of checking the immigration of persons possessed of small capital desirous of establishing themselves upon land of their own There are very few new comers who possess sufficient means to purchase, at a price much above 5s, the large tract of land which in this country is absolutely necessary for even the commencement of an ordinary grazing establishment. Again, the inducements offered to retired officers to settle in the colony, by obtaining land at the minimum price, would be much diminished if that price were raised These officers, both as regards numbers and character, are no small acquisition to the rural population of the colony

Apprehending, therefore, that to raise the upset price of crown lands would introduce much of the mischief I have represented, believing also that the influence of competition is becoming daily a more certain safeguard against the sale of any land below its just value; considering further the general impolicy of meddling without imperative necessity with any established system affecting so nearly the foundations of property, especially with one which has been found hitherto to operate so advantageously, I am unable to recommend any change in the minimum price at

which crown lands are, under the present regulations, offered to sale by public auction in New South Wales.

In 1840 Lord John Russell, then her Majesty's secretary of state for the colonies, sent a despatch to Sir George Gipps, governor of New South Wales, containing instructions, dated 23rd May, 1840, under the royal sign manual, respecting the settlement and alienation of waste lands in the colony New South Wales was to be divided into three districts, northern, middle, and southern. In the middle district, the minimum upset price of land at public auction to be 12s per acre; in the southern or Port Phillip district. all lands, in future, to be "open to sale at one uniform price" of 20s. per acre, subject to a few qualifications. Lord J. Russell stated, that £1 an acre appeared a reasonable price, adverting to the proceeds of sales hitherto; that it appeared to answer well in the neighbouring colony of South Australia, and that it would probably be advisable to offer lots for sale in sections of 160 or 80 acres; town lots to be at the rate of £100 per acre.

In 1840 (10th December), Sir George Gipps, then governor of New South Wales. forwarded to Lord John Russell a "Memorandum on the Disposal of Lands in the Australian colonies," in which he assumed that 5s. per acre was decidedly too low, as a minimum price, although he acknowledged that the land seldom produced at auction more, and that there was a glut of land in the market at that rate. The governor stated that in 1839 the minimum price was raised to 12s. per acre, and he gave the general results as follows -

		C	oun	try I	ands			То	wn A	llotz	ment	s	Count			s and ents	Town	
	Years	Acres	p	Pri er A	ce	Sum	Acre	8		Pric Ac			Acres	pe	Pricer A		Sum	
			£	8	d	£	R	P	£	8	d	£		£	8	d	£	1
Old Parts	1838	278,323	õ	5	43	75.159	185 3	26	17	7	4	3,228	278,509	0	5	73	78,387	1
of the	1839	198,198	0	8	1 ફે	80,836	231 0	22	29	0	111	6,714	198,429	0	- 8	94	87,550	i
Colony	1840	94,878	0	13	1	62,360				3	74	35,518	95,391	1	0	6	97,878	1
. ,	1837				-	,,		20	81	5	8	7,142	88	81	5	8	7,142	
Port	1838	38,653	0	13	3	25.587	41 1	12	213	11	7 į		38,694	0	17	97	34,414	
Phillip	1839	38,283	1	10	11	61,102	65 1	- 8	137	19	0	9,008	38,348	1	16	6‡	70,110	ı
_	1840	82,729	1	12	11	136,367	169 2	16	487	16	2	82,732	82,899	2	12	10	219,100	ĺ

was given in 1839-40, and '41, throughout ished, thus-1838, acres 278,323, at 5s. 43d. Australia generally, but more especially at per acre = £75,159, 1840, acres 84,878, at Port Phillip; it is not, therfore, surprising, 13s 13d. per acre = £62,360. It was erronthat large sums were realized, both for town cously supposed, that because land sold at and country sections. In New South Wales, 12s., and, subsequently, at 20s. an acre, in however, this was not the case, for the South Australia, therefore the same price

A great stimulus to the purchase of land quantity of country land sold greatly dimin-

could be realized in New South Wales; but it was forgotten, that independent of delusion at home, and peculiar circumstances, that a system of special surveys was introduced in South Australia, whereby any person binding himself to take 4,000 acres, might require a survey of 15,000, and out of this he might select his portion in lots of not less than eighty acres; so that with such a privilege, he selected all the good and left the bad He might also make his selection of a narrow strip with water frontage, thus rendering the back land unavailable for any A gambling system was also introduced, by giving to the purchasers of a certain number of acres, gratuitously, or almost gratuitously, a lottery or raffle ticket for a town or building allotment, which, in some places, was very valuable. Many persons, in England, who bought land in South Australia during the period of the "land mania," have never, to this day, received one shilling in return for their outlay. memorandum of Sir George Gipps is well nigh unintelligible; he condemns the system adopted in South Australia, as a gambling speculation, depending on a throw of dice, he considers, that "Australia is a pastoral country, and must remain such, for ages," that "scarcely one hundredth part of the land sold by the government in Australia, is ever purchased for the purpose of being cultivated;" and that "the enterprizing colonists who first drove sheep and cattle from New South Wales to South Australia, rescued that colony from ruin," and yet, after an entire condemnation of the fallacies which were sedulously propagated respecting the "new principle," and the "sufficient price" at South Australia, Sir George Gipps appears to recommend to her Majesty's ministers, in England, the raising of the price of land in New South Wales, as a raw material, above 5s. per acre.

In this memorandum the governor of New South Wales thus correctly described the character of the squatters, and the extent to which squatting was then carried on .—

"A very large proportion of the land which is to form the new district of Port Phillip, is already in the licensed occupation of the squatters of New South Wales, a class of persons whom it would be wrong to confound with those who bear the same name in America, and who are generally persons of mean repute and of small means, who have taken unauthorised possession of patches of land. Amongst the squatters of New South Wales are the wealthlest of the land, occupying, with the permission of government, thousands and tens of thousands of acres. Young men of good family and connexions

in England, officers of the army and navy, graduates of Oxford and Cambridge, are also in no small number amongst them.

"At the end of 1839, the cattle depastured beyond the boundaries was returned as follows, though probably the real quantity was much greater: sheep, 1,334,593; horned cattle, 371,699; horses, 7,088. The number of acres in cultivation was also returned as 7,287."

In 1841 (17th July), the Colonial Land and Emigration Commissioners (T. F. Elliott, esq. and the honourable E. E. Villiers,) addressed a valuable letter to James Stephen, esq., under-secretary for the colonies, in which they stated that they could not agree in the recommendation of the South Australian committee, that the upset price of land should be at once raised in South Australia and the other Australian colonies. The commissioners observe, that while they deem the price of land should be progressively increased, until the object of establishing a due proportion between the supply and demand for labour, and between the population and the extent of territory occupied by it, shall have been accomplished, yet, that the extent to which the price of land can be raised, has limits beyond which no authority will avail; and, that just as the smuggler places a limit beyond which the duties of customs cannot be increased, so the squatter would defeat an indefinite increase of the price of land; for, as soon as the consideration demanded by government for granting a title became extravagant, persons would prefer the course of taking land without a title, and bearing the

In the annexed paragraph, the commissioners clearly foretold the disadvantageous results attending an increase of price above the 12s. then prevailing in New South Wales.—

"It appears to us, that as to the possible effect of a low price in withdrawing persons from labouring for hire in the colony, there may be some misapprehension as to the state of facts. In North America, where lots were of small size, and their value was to be realised by force of human labour only, it is not questioned that too great a facility of acquiring land withdrew large numbers from the class of labourers But in the Australian colonies, where land requires to be in large quantities, for the principal use to which it is turned, and where also the profit to be derived from it depends not upon mere human toil, but upon the acquisition and rearing of stock, requiring a considerable further outlay of capital, it may well be doubted whether the same effect is to be apprehended. We certainly do not remember to have seen it mentioned in any official accounts from these colonies, that land has been acquired by persons in the condition and with the means of labourers. and Sir George Gipps, in the memorandum which

forms one of the papers now under consideration, mentions, that it is 'rarely advantageous in any part of Australia for a newly-arrived emigrant to become a proprietor of land, unless his capital is considerable.' This would seem to imply that the temptation held out by land to people of small means is not very considerable The truth, perhaps, is, that various other causes, besides the price of land, must govern the usual rate of wages. It is, we believe, generally understood, that where the capital which can be profitably used in employing labour is very large, in proportion to the number of labourers that can be obtained. wages will be high; and this will continue equally true, whatever might be the existing land regulations. We fear, therefore, that if we were to undertake progressively to increase the price of land until labour should be abundant, and employment as much divided as in old countries, we might possibly extinguish the land sales before we should have reduced wages; that we might seriously diminish the resources for producing the great staple of the Australian settlements, and perhaps have engendered an extensive system of unauthorized squatting. We feel the force of this apprehension the more, when we advert to the opinion of the committee, that after once a minimum price has been declared, it ought not to admit of being lowered, except by an act of the British Parliament.

In 1842, the system of sale by auction was resumed throughout the colony, at a minimum upset price of 12s per acre for country lands, with liberty to select portions

not bid for at the upset price.

George Gipps, the governor of New South denominated respectively—(1) the settled, Wales, on 9th September, 1842, he used these remarkable expressions .—"I do not advocate the putting the squatter on a par with the purchaser of crown land, to do this, would be effectually to nullify all the regulations which have been introduced for the disposal or sale of land, since land began to be of any value in the colony So obviously does the squatting system act from the towns or townships of Portland, to prevent the sale of crown lands, that the late secretary of state, in a despatch which has been laid before the Council (dated 20th June, 1840), pointed out the propriety of raising the price of a licence to depasture stock beyond the boundaries, to five or six times its present limit." It must, however, be admitted, that when the government adopted the theory of raising the price of land beyond its real value, the colony would, to a great extent, have been ruined, but for the squatters, whose exertions have increased the quantity of stock, and greatly multiplied powered to grant leases or runs of land in the exportable produce of the settlement.

In 1843, the minimum price was raised to twenty shillings per acre, by an act of the Imperial Parliament, (5 and 6 Vict., cap. 36,) with liberty to select, at the upset price, run as may be necessary to provide grain, country portions put up to auction and not hay, vegetables or fruit, to the amount

bid for, or on which the deposit had been forfeited. The land was offered for sale, in quantities of not less than a section, or one square mile = 640 acres. In 1843, a select committee of the Legislative Council of New South Wales was appointed, to enquire into and report upon the upset price of land. In the same year, and in 1845, "immigration reports" were laid before the Council. In the resolutions and petitions of the Council, founded on these several reports. urgent protests were made against the continuance of a policy which had been productive of the disastrous results of annihilating the land fund, and simultaneously depriving the colony of capital and labour. by which a series of social revolutions, and an unparalleled depreciation in the value of property were, in a great measure, to be attributed. It was stated, in this year, that about 5,000,000 acres had then been alienated from the crown in New South Wales: of these, about 3,500,000 acres had been granted, and about 1,000,000 acres had been sold, at a price of about 5s. per acre.

By an order of her Majesty in Council. dated London, 9th March, 1847, the lands of New South Wales were divided into three In a speech delivered in Council by Sir classes, according to their situation, to be (2) the intermediate, and (3) the unsettled districts The first comprised the settled and proclaimed counties of 1st January. 1838, and the counties of Macquarie and Stanley, also lands within three miles distance from any part of the sea coast, or two miles from certain parts of the rivers Glenelg, Clarence, and Richmond, or ten miles Alberton, Eden, Bathurst, Wellington, Macquarie, Ipswich, and a town at the head of the navigation of the Clarence river. second comprehended the counties to be proclaimed on or before 31st December, 1848; and the third, all the other lands in the territory of New South Wales. this enumeration, the references to Melbourne and the Port Phillip districts have been omitted, as this portion of Australia is to be formed into a distinct colony.]

> Under this order, the governor is emthe unsettled districts, for any term not exceeding fourteen years' duration, for pastoral purposes, with permission for the lessee to cultivate so much of the land in the said

lishment of the lessee, but not for sale or The committee state, thatbarter. The rent to be proportioned to the number of sheep or cattle which the run may be enabled to support; each run to be capable of carrying at least 4,000 sheep, or an equivalent number of cattle, and not in any case to be let at a lower rent than £10 per annum, to which £2 10s. per annum shall be added for every additional 1,000 sheep, or equivalent number of cattle, which the run may be capable of carrying. A commissioner of crown lands to estimate the capabilities of the run. During the continuance of the lease, no person but the lessee to be suffered to purchase any of the run; but he to be allowed to buy the whole, a price of not less than 20s per acre. On lands by sale or lease.

determination to carry out the system of land shall not be sold at all of the colony against this ruinous system is adduced -

required for the use of the family and estab- have been unheeded or misunderstood."

"For a series of years the growth of the colony was uniform, progressive, and uninterrupted. From 1833 to 1840, the sum realized by the sale of the waste lands was upwards of £1,000,000, and by the expenditure of this amount 80,000 souls were introduced. Under this system, the population became more than doubled in a period of eight years. In 1839, it was the policy of the imperial government to raise the upset minimum price of land from 5s to 12s, and subsequently to £1 an acre This act may be and subsequently to £1 an acre This act may be regarded as one chief cause of the disasters with which the colony has since been visited, and of its present depressed condition From £300,000 a-year the land revenue fell to £8,000, and immigration ceased; the sources from whence it had been defrayed, having been thus suddenly arrested."

In 1847 (23rd July), a select committee, or portions of not less than 160 acres, at consisting of ten members of the Legislative Council of New South Wales, was appointed the intermediate lands the governor may to inquire into and report upon what ought grant leases as above for not more than to be the minimum upset price or prices of eight years, but at the end of each succes- land in the various counties and districts of sive year of the lease, these runs may be New South Wales. On 27th September. offered for public purchase, subject to sixty 1847, the committee made a report, of which days' notice to the lessee. In the settled the following is an abstract. All the witdistricts the governor may issue grants or nesses examined, whether favourable or undepasturing leases for one year, without favourable to the maintenance of a high interference as to time of disposal of said minimum price, agreed that 20s. does not in any degree represent the exchangeable In 1847 (11th September), a select com-value of an acre of land in New South Wales, mittee of the Legislative Council of New and that, therefore, the declaration of the South Wales on immigration, stated, that Imperial Parliament, that land shall not be "the land fund—the source from whence sold till it realises £1 per acre, is a declaraany amount of expenditure incurred in im- tion that land shall not be sold until it migration might have been defrayed, has realise more than it is worth, or, in other been annihilated, in consequence of the words, that except in particular instances, Mr. E. G. Wakefield, and the remonstrances mation of this statement, the following table

Prices of Crown Lands and Quantities Sold from 1837 to 1846, both inclusive

Year.	5s per acre,	s per acre, 12s per acre, 20s Country Country Co		20s per acre, Upwards of 20s per acre			Total Acres	I otal Amount for	
Tea.	Country			Town	Country	Surveys, m Acres	Sold	Lands sold	
1837	368,483			212	_	_	368,695	£121,962	
1838	315,059			228	30		315,318	128,865	
1839	249,896	30,218	2,664	2,785	351		285,915	166,713	
1840	68,873	111,720	2,058	5,525	1,291		189,468	324,072	
1841	_	16,430	3,310	248	153	66,199	86,341	92,636	
1842	_	4,898	1,340	170	471	15,023	21,903	18,312	
1843	_	616	3,205	157	717	121	4,817	12,205	
1 844			3,822	245	190		4,259	9,174	
1845	127		4,440	1,754	945		7,267	18,025	
1846	_	103	2,841	282	3,791		7,018	27,700	
1847]									
1848			No	detailed	returns.		1		
1849				detaned	returns.			1	
1850		1						1	
Total .	1,002,440	163,985	23,683	11,611	7 942	81,343	1,291,006	£919,669	

adduced the facts

"That the sum realised by sales of land in 1846 is less by £3,000 than one-fourth of the sum realised from the same source in 1837 It will also be observed, that in the five years which have elapsed since the raising of the minimum price to £1 an acre, the whole sum realised by land sales is not quite £80,000, or two-thirds of the sum realised in the single average year 1837; and the whole number of acres sold about 45,000, or less than one-eighth of the number sold in 1837. The result is more strange, when it is observed, that in 1837 the population of the colony amounted to 85,000 persons, while, in 1846, the population amounted to upwards to 196,000 by unwise legislation has the permanent settlement been retarded in proportion as the demand for it has increased, and thus is the fallacy, that land can be made saleable at this price by the introduction of population, practically refuted But it has been said by Sir George Gipps, that it is to the insolvency, which was unfortunately so general a few years ago, and not to the high minimum price, that the cessa-tion of land sales is to be attributed. If so, we may expect to find the same paralysing influence extended to all markets as well as the land market The comparison of 1837 with 1846 will completely show the fallacy of this suggestion. In 1837 the value of exports from the colony was £760,000 In 1846 the value was £1,481,000, or nearly double the ships entered inwards were 400, of the burden of 80.000 tons In 1846 the ships entered inwards were 767, of the burden of 141,000 tons In 1837 the proceeds of sales by auction were £321,000, in 1846, £414,000 In 1837 the coin in the treasury, military chest, and banks, was £427,000, in 1846, £827,000 Thus, while our exports, our shipping, our circulating medium, and our population have doubled, while the proceeds of sales by auction have increased onefourth, the proceeds of sales of land have decreased by more than three-fourths."

The inference deduced from these facts by the committee is that while-

"The producer of colonial exports is content to sell his commodity at the price which it will bring, the shipowner looks only for the current rate of freight, the importation of capital is regulated by the rate of exchange; but the government, the great proprietor of land, refuses to regulate its dealings by these principles, repudiates the doctrine of supply and demand, and insists upon holding this commodity, of which it has practically the monopoly, till it realise a price, of obtaining which no practical man can see the probability or even the possibility Thus, while every other branch of industry is carried on with the greatest activity and success, the settlement of the country, to which they ought all to be considered as subsidiary, stands still, and the mind is astonished by the anomalous spectacle of a colony active, enter-prising, and energetic in all things, except the one alone for which it was founded-colonization.

" It seems impossible to reconcile this system not only to any views of sound policy but to any policy at all. If the government regard these lands as a mere vehicle of revenue, as the means of raising the largest possible sum, narrow and unstatesman-like as such a view may be, this is not the way to carry it out. The figures above quoted show that the price is is no more. so exorbitant, that every other element of wealth in

From the foregoing table the committee the country may double and leave it still a virtual prohibition. How often this multiplying process is to be repeated before the pressure of population and the increase of wealth will render these lands saleable at £1 an acre it is impossible to say, but to judge by the moor lands of England, and the bogs of Ireland, the period is yet extremely remote It must also be remembered, that even if the government should succeed in selling land at £1 an acre twenty years hence, for which now only 5s could be obtained, the government, allowing for compound interest at the rate of interest which money now commands in the colony, is considerably a loser, add to this, that by destroying the land fund, the government is not merely foregoing a revenue which would be cheerfully paid and easily collected, but it is destroying future revenue by arresting the influx of that labour from which land derives so much of its value It is not merely refusing to sell a commodity, but it is depre-ciating that commodity for ever The supply of land which may become saleable by the government is, for all practical purposes, infinite. What quantity will become saleable, depends upon the increase of population Government, therefore, as a mere dealer in land, has a direct interest in selling so much of it as will keep the tide of population continually flowing towards its yet unsold possessions

"It is also the interest of government to attract capital In this also it has signally overleached itself The principle of a uniform fixed price contains in it this objection, that that price must be tolerably high. since upon it alone the government relies to protect its interests, but it has the countervailing advantages of certainty of amount and facility of operation The principle of sale by auction has not these advantages, but it offers to the capitalist the attraction of referring not to any arbitrary standard, but to fair competition to fix the value The government has rejected all that is attractive in each of these systems, and retained only what is repulsive Enough of the fixed price is retained to make the purchasei sure that he will not get the land cheap, enough of the principle of competition to make him uncertain whether he shall get it at all

"The facilities of steam and railway communication are gradually drawing mankind together, and countries possessing wild lands for sale, are beginning to enter into competition with each other. It is becoming daily more impossible to regard this as an isolated question. In determining the price of land, the competition of other countries ought not to be left out of sight At the Cape of Good Hope land can be obtained for one-tenth, in Canada for onefourth, and, as it appears recently, in the United States, for one-fortieth of the sum demanded for a like quantity here In utter defiance of the principles of political economy, it is expected that persons will give for our poor and inaccessible land four, five, ten, or forty times the price at which nearer and more accessible land may be obtained It is assumed that one acre of land in Australia equals in value four in Canada, five in the United States, ten at the Cape of Good Hope, and forty in the territory recently ceded to the United States by the Chacktaw Indians Your committee apprehend, that as regards the greater part of the lands of this colony, it is perfectly immaterial whether the minimum price fixed be £1 or £20 an acre The former price is shown, by reason and experience, to be utterly unattainable, and the latter

"Your committee would wish to be understood as

by no means undervaluing the great advantages derived by the colony from pastoral pursuits, but they are desirous of expressing their opinion that the home government, by prohibiting the sale of land, has given an undue stimulus to those pursuits, and undue discouragement to agriculture and settled industry. The prohibition of the purchase of land has aggravated that tendency to dispersion which it was designed to counteract. The true policy, in the opinion of your committee, is neither to stimulate nor check this tendency to dispersion, which is the natural precursor of that state of society in which the Unhappily, the tendency to concentration arises government has not observed this rule. In its anxiety to concentrate the population, it has placed a price on land which rendered it impossible for those who occupied it to occupy as purchasers The occupation has been conceded, the proprietorship has been withheld, and thus has the industry of the colony been forced into the channel most consistent with occupation without title, and the policy which ambitiously aimed at forcing the colonists prematurely to become villagers and agriculturists, has resulted in compelling them to become shepherds and herdsmen prohibitory price thus imposed been the result of a sincere though mistaken conviction, your committee, while deprecating its impolicy, could not have murmured at its injustice. But it is now notorious in the colony, and can be proved by unquestionable evidence, that it was not with a view to the welfare of New South Wales, but of South Australia, that this obnoxious law was passed. Colonel Torrens and his brother commissioners, the founders of the South Australian colony, felt that it would be impossible to obtain £1 an acre for land there, while land of the same quality could be obtained at 5s an acre here They felt that whatever were the ments of their scheme, it would not bear the test of the free-trade principle of competition, and they sacrificed, without remorse or hesitation, the present and actual interests of the older colony, to the future, and, as it has turned out, visionary prospects of the younger Thus it happens, that 200,000 persons are impoverished, that their interests may not stand in the way of the imaginary interests of 25,000, and while colony after colony has been emancipated from the £1 an acre system, New South Wales has been unable to obtain her deliverance, precisely because, to her, that deliverance would be most valuable. Van Diemen's Land is of too small extent-New Zealand is too distantto impair, by their competition, the working of the £1 an acre system in South Australia If the land of New South Wales were rich, the continuance of the price would be a matter of indifference, if the land were small in quantity, the reduction of the price would be unimportant, it is the great quantity and poor quality of the land—the very causes which render the high price ruinous to New South Walesthat constitute its principal attractions in the eyes of the South Australian commissioners.

From a return made to government, up to June 30th, 1836, it appears that the land comprised within the then nineteen counties of the colony, was upwards of 25,000,000 acres, of which only about 5,000,000 acres had been alienated; showing that there was, consequently, abundance still left within the settled districts for cultivation, if required.

who received grants, the next best put up to sale by government at 5s. an acre; after selections had been made for several years at this price, the third best were offered at 12s. an acre; and, finally, the refuse or remainder of these grants and sales was put up for sale by auction at 20s. per acre. (Evidence before Legislative Council, 14th August, 1847.)

After these forcible arguments, the Legislative Council committee proceed to show, with a warmth which is, perhaps, only too excusable, that it would have been happy for the colony, if the rum of her land fund

the dispersion of her people—the stoppage of immigration—and the dissemination of a just spirit of discontent, had been the only results of this high minimum price. party arose in the colony, a class termed "squatters," who, forbidden by the policy of the government to buy land, were forced to occupy it, and did so, under the authority of the government, on a lease of 1d, per acre, until the lands thus occupied were purchased at £1 per acre. Hence, the squatters - men of intelligence, education, property, and good family in England, who had made New South Wales their homebegan to feel that they had a vested interest in maintaining the prohibitory price, as a guarantee that their occupation would not be disturbed; the result is, that "the land possessions of the British crown in New South Wales have been in a manner alien-The settlers object to the landorders which authorise leasing at 1d. per acre, because they confiscate the lands of the colony; the squatters approve of them, because they see no limit to the term of their occupation; under them, temporary occupation is consequently equivalent to permanent alienation—thus the system has led to grants of land on the most lavish and extravagant scale By the process now in operation, it is alleged that all the desirable land within the nineteen counties, and beyond the settled districts, viz., about 1,800,000 acres, have been, in reality, bestowed on about 1,800 persons, at the rate of 100,000 acres per head, in a country where there is one inhabitant to every 100,000 acres, and has coupled with this premature appropriation, a regulation prohibiting agriculture Thus, it is asserted, dispersion is enforced; co-operation, the division of labour, religious and secular instruction, are all out of the question; landed property is The best lands had been selected by those accumulated in the hands of a few to the exclusion of the many; and the high mini- from 20s upset price for land having a tenmum price of land (20s. per acre) has dency to secure the concentration of the operated as a bar to the natural and secure population, as was alleged would be the investment in the soil of the surplus capital case, it had quite the contrary effect, and of the colony, hazardous speculation has been had promoted dispersion, by a system which consequently encouraged, and capital forced operates as a prohibition upon the sale of into other and less legitimate channels. The opponents of the high minimum price of borated the statements of the Legislative land do not deny the benefits arising from the sale of waste lands; or that a sum of quatters have an occupation which they nearly £1,000,000 was raised by such sale consider as almost equivalent to the proin New South Wales, in ten years, whereby prietorship of the soil: for all practical purof the gross proceeds of the land sales acres to one sheep, would entitle the squatter, five years, when the minimum price was 20s. an acre; thus, if the sum raised from 50,000 immigrants, 46,000 have been introduced by land put up under 20s an acre, and 4,000, only, by land put up at 20s. an acre. In other words, had the price remained unaltered, the colonists might have raised £2,000,000, instead of £1,000,000, and introduced 100,000 immigrants instead of 50,000. It is in evidence, that no land and 5s. per acre for grazing land. Accordequivalent to four per cent. would be a pro-Mr. Ogilvy thinks ls an per valuation. acre sufficient. which a rabbit could not feed, and 3s. an acre would be gladly received for 10,000 large tracts of a deep dark rich soil are likely to be cleared for years to come.

Mr. Justice Therry, in his evidence before the House of Lords (9th June, 1848), being asked to what he attributed the considerable falling off in the land sales of New South

Wales, of late years, answered-

" Principally I should attribute it to the minimum price of land being £1 an acre, and to the great extent to which, in consequence of this price, the squatting system has extended, as well as to the great facility afforded for the occupation of land without purchase; that naturally prevents the sale of land If a person can occupy and use land without buying it, and buying too at a price beyond its value, it is plain he will not purchase it"

and This experienced judge fully corro-Council Committee, and asserted, that "the 50,000 immigrants have been introduced poses, they have an ownership of the land into the colony; but they contend, that almost as if they had purchased it" Four (£920,000), £835,000 were received during having the smallest required number of the first five years of the period, when the sheep (4,000), to 16,000 acres of land, and price of land was under 20s an acre, and it must be evident he could not afford to but £85,000 during the second period of pay 20s. an acre, or £16,000, for mere pastoral purposes.

In 1848 (29th March), the governor land has been the means of introducing issued regulations for the occupation of crown lands within the settled districts, viz -First. That holders of purchased lands within those districts may depasture stock on vacant crown lands immediately contiguous to their respective properties, but that they shall only possess a commonage right, to be enjoyed alike by all the holders of adjacent purchased lands, and may not erect any hut has been purchased for grazing purposes at or building, or clear, enclose, or cultivate 20s. an acre; according to some witnesses, any portion thereof. Second. That sections 10s, per acre would be a fair price for arable, of not less than 640 acres will be let, with exclusive right, for one year, at a rent of not ing to Mr. De Salis, 2s. 6d, and a rent less than 10s. per section, for pastoral purposes only. Leases not assignable, or lands to be sublet. Wood, excepting cedar, may There is much land on be cut for fencing stock-yards, for fire-bote, or domestic uses. Lands open to purchase under the ordinary regulations. lessee to acres in the county of Macquarie. Many receive a notice of one month The secretary of state for the colonies has authorized covered with dense forests, which are not the local government of New South Wales to raise a loan of £100,000 for emigration purposes, on the security of the land revenues of the colony, but declined to alter the upset price of 20s per acre for land. It is rightly deemed that any alteration in price ought to apply to all the southern colonies; and her Majesty's government propose to leave the settlement of this question to the United Assembly of all the Australasian colonies. It will, however, be a very difficult matter, owing to the interests which have grown up under the present system.

The quantity of land sold, and the proceeds thence derived, in New South Wales The witness proceeded to say, that so far and Port Phillip, and the amount derived

432 LAND SOLD AND MONIES RECEIVED IN N. S. WALES SINCE 1831.

from squatting licences, are thus shown since 1831 -

Year	Number of Acres Soid	Purchase Money	Squatting Licences
		£	t
1831		2,597	
1832	20,860	12,509	
1833	29,001	24,956	
1834	91,399	41 484	_
1835	271,947	87.097	
1836	389,546	123,049	3,680
1837	370,376	117,583	4,780
1838	316,160	115.825	6,280
1839	272,620	166,578	11,675
1840	189,787	317,251	13,300
1841	85,776	93,387	15,701
1842	10,673	19,444	16,255
1843	5,227	11,664	19,823
1844	4,260	9.016	32,031
1845	7.747	22,821	38,943
1846	7,683	30,183	42,749
1847	28,726	76,962	43,075
1848	21,480	41,919	46,903
$1849 \\ 1850$		No returns	

In 1848 the whole quantity of land sold in the New South Wales district was only 3,472 acres, and the sale proceeds £7,384; in the Port Phillip district, 18,007 acres, The revenue derived proceeds, £24,030. from squatting licences, in 1848, was—within afterwards 102nd Regiment

the settled districts, New South Wales. £1,116; Port Phillip, £383 = £1,549; without the settled districts, New South Wales, £26,490; Port Phillip, £18,863 = £45,353.

The subjoined table shows by whom, and the period, the government of the colony was respectively administered since its foundation on the 26th January, 1788 :-

	F	rom		То
Cantain Francis Gross (T + Gor)	Doo	11 1700	Don	10, 1792
Captain Paterson, New South Wales Corps (Lieut -Gov)	Dec	15, 1794	Aug	6, 1795
Captain Hunter, R.N	Aug	7, 1795	Sept	27, 1800
Captain W Bligh, R N	Aug	28, 1800 13, 1806	Jan	26, 1808
Major-gen Sir T Brisbane, K C B	Jan Dec			1, 1821 30, 1825
Colonel Stuart, 3rd Reg, or Buffs (Lieut-Gov)	Dec	,		18, 1825
Lieutenant-cen Ralph Darling Colonel Lindesay, CB (Lt-Gov)		19, 1825 22, 1831		
Major gen Sir R Bourke, K C B Lieutenant-col Kennett Snod-	Dec	3, 1831		.,
grass (Lieut-Gov) } Sir George Gipps			1	23, 1838 10, 1846
Sir M C O'Connell Sir Charles Augustus Fitzroy			Aug	2, 1846
on one to regulate I tentoy		J, 1010		

Note—Captain Bligh was suspended as Governor on the 26th January, 1808, and from that period to the 28th December, 1809, the government was successively administered by heutenant-colonel G Johnstone, Leutenant-colonel Foveaux, and colonel W Paterson, all of the New South Wales Corps,

CHAPTER II.

TOPOGRAPHY, PHYSICAL ASPECT, MOUNTAINS, RIVERS, AND HARBOURS, COUNTIES. GEOLOGY, SOIL, MINERALOGY, CLIMATE, AND DISEASES.

NEW South Wales (so called by captain Cook, from its fancied resemblance to the South Wales of England,) occupies the eastern portion of the Australian continent, its northern and western limits are not yet definitely assigned; on the east it is bounded by the South Pacific Ocean, and on the south, by the province of Port Phillip or Victoria. For the reason just mentioned, it is at present impossible to state its area.

Physical Aspect, Mountains and Rivers .-The general features of the surveyed districts are alternate hills and valleys, mountains and plains. The "mountain belt" of Australia, already referred to (p. 370), is known in different parts of the province

Liverpool Range, in its northerly, and the Australian Alps, in its southerly extension. This lofty ridge, which runs nearly parallel to the coast, at a distance of thirty to fifty miles, separates the waters that flow towards the sea from those that have an inland course; its mean altitude is estimated, by Count Strzelecki, at 3,500 feet above the The same accurate observer states the average fall of the coast or easterly rivers at forty-eight feet in every mile; the average slope produced by the transversal spurs being ninety-six feet; and the average fall of the westerly waters, at nine feet in every mile; that of the country within seventytwo miles from the crest of the dividing under distinct denominations, viz., as the range being twenty feet. The intervening Blue Mountains, in the vicinity of Sydney; | space between the mountains and the sea is

occupied by a gently undulating surface, intersected by water-courses; in some places well wooded, in others covered with dense scrub, and gradually rising to the westward in groups of isolated hills, or small and broken ranges, branching out from the ridge of high land, which, winding from northeast to south-west, forms a continuous and clearly defined line visible against the horizon as far as the eye can reach. In 30° S. lat. this chain divides the sources of the river Peel, running to the westward, from those of the Hastings, flowing north-east, towards Port Macquarie; further to the south, one of its eastern spurs separates the river Manning from the river Hunter, after which, assuming a westerly direction, it divides in its windings the tributaries of the Hunter from those of the Peel. This portion of the chain, distinguished by the name of Liverpool range, is crowned by several peaks of greenstone, whose bare and unshapen tops attain an elevation of 4,700 feet two of these, Mount Oxley and Mount M'Arthur, the view is extensive and very pleasing; to the westward of them, at the point were it divides the river Goulbourn from the Talbrager, the chain turns suddenly to the south-east, but resumes its south-westerly direction at a locality rendered remarkable by the peaks of Corncudgy and Payan, and the sources of the Colo and Cudgegong. At Cullenbullen the chain is granitic, and throws off a remarkable basaltic spur to the eastward, whose numerous and intricate ramifications render the Blue Mountains so difficult to explore, and even to approach. Mounts Adine, Clarence, King George, and Tomah, crown the northern and loftier branch; mounts Hay and King's table land, the southern. "Between these ranges," says Count Strzelecki, "he yawning chasms, deep winding gorges and frightful precipices. Narrow, gloomy, and profound, these stupendous rents in the bosom of the earth are inclosed between gigantic walls of sandstone rock—sometimes receding from, and sometimes frightfully overhanging the dark bed of the ravine, and its black silent eddies, or its foaming torrents o "Everywhere," he adds, "the deep recess is full of danger, and the issue almost impracticable. At the foot of Mount Hay, the river Grose flows through a sand stone ravine, the perpendicular depth o which is 1,500 feet." To return to the main range—at the part from whence the spur branches out, it is composed of sienite

and granite; thence extending for a few miles to the south-west, it gives rise to Cox's river, and forms the Walerawang and Clwyd valleys; it then takes a south-east irection, and is known by the name of the Honeysuckle range; the mean elevation of ts crest is 4,050 feet; twenty-five miles beyond, bending again to the south-west, it rises to 4,500 feet, its character alters, and the eye rests on naked sienitic peaks, instead of richly wooded greenstone summits. A spur shoots off to the northward, which, in its windings, separates the river Macquarie from the Abercrombie, while the chain itself becomes lower, less precipitous, and more wooded. At Mount Fitton, about he source of the Wollondilly, and at the head of Lake George, this character again somewhat alters. At the last named locality, westerly spur, composed alternately of serpentine and porphyries, divides the tribuaries of the Murrumbidgee from those of he Lachlan, winding its way through a very broken country. Further on, beyond Lake Bathurst, another branch stretches to the north-east, but the chain continues its southerly course for about sixty miles; then changing again to south-west, it assumes bolder aspect, its greenstone and sienitic rest at times resembling Alpine table-land; and others, rising in clearly defined and dentiform summits, capped here and there by snow, even in the midst of summer. remarkable spurs which shoot out from both sides of the ridge at this point, are distinguished by the same marked features, that which, passing to the eastward, flanks the river Shoalhaven from its source to its mouth, renders the whole track over which it passes broken and intricate; and that, which running in an easterly direction, winds between the rivers Murrumbidgee, Coodrabidgee, and the Doomut, is of very striking formation, its lofty ridges enclosing the channels of the rivers just mentioned, whose sources are marked by a cluster of broken peaks. We now arrive at that portion of the range denominated the Australian Alps, of which, however, only one remarkable eminence is included in the limits of New South Wales, that one named Mount Kosciuszko by its explorer, Count Strzelecki, is described by him as one of those few elevations, the ascent of which, far from disappointing, presents the traveller with all that can remunerate fatigue. Its altitude of 6,500 feet, raises it above the adjacent mountains, and the view from its summit

embraces 7,000 square miles. Beneath the and on hurling stones down into the chasm, downwards almost perpendicularly, the eye away in a vast abyss beneath my feet. united waters to the west.

New South Wales, unless we reckon as such an eminence named Mount Wingen, situated near the sources of Hunter's River, where the process of combustion was, in 1818, discovered to be going on. Two visits were made to it in 1830 and 1831, by the Rev. C. P. N. Wilton (then chaplain at Newcastle), who published, in the Australian Almanac for 1832, the interesting account of which the following is an abstract:-

"Mount Wingen is situated on the southeastern side of the dividing range which separates the lands of Hunter's River from Liverpool Plains, in 31° 54′ S lat., 150° 56′ be less than from 1.400 to 1.500 feet from the level of the sea. At the period of my first visit, in the beginning of last year, this comprehended parts of two declivities of one and the same mountain, composed of compact sandstone rock. The progress of the and highest elevation, and it was then with increasing fury. concave chasms of various widths, of which scab in sheep." I had an opportunity of particularly examining the widest. The rock, a solid mass of Newcastle, towards Red-head, the cliff was sandstone, was torn asunder about two feet in width, leaving its upper and southerly side exposed to view, the part so torn asunder having slipt down, as it were, and sunk into a hollow, thus forming the concave surface of the heated rock. On looking down this chasm to the depth of about ever, in 1830, became extinct;—unlike that fifteen feet, the sides of the rock were perceived to be of a white heat, like that of a which Mr. Wilton thus speaks:lime-kiln, while sulphureous and steamy vapours arose from the aperture, amidst visit, had, I found, been by no means insounds which issued from a depth below, active, having extended over a surface like blasts from the forge of Vulcan him- exceeding two acres, and was now raging self. I stood on that portion of the rock with increased fury up the eminence to the which had been cleft from the part above, S. and S.S.W., and also on the hitherto

feet, looking from the very verge of the cone the noise they made in the fall seemed to die plunges into a fearful gorge 3,000 feet deep, area of the mountain, over which the fire in the bed of which the sources of the Mur- was raging, was about an acre and-a-half ray gather their contents, and roll their in extent. There were throughout it several chasms varying in width, from which are No known volcanic mountain exists in constantly emitted sulphureous columns of smoke, accompanied by brilliant flame, the margins of these being beautified with efflorescent crystals of sulphur, varying in colour from the deepest red orange, occasioned by ferruginous mixture, to the palest straw colour, where alum predominated. A black, tarry, and lustrous substance—a sort of bitumen-abounded on the edges of several of the clefts. Specimens of this were with difficulty obtained, from the intense heat under foot, and the suffocating quality of the vapours emitted from the chasms No lava or trachyte of any description was to be met with, nor was there E long; and the elevation of the portion of any appearance of coal, although abounding it under the process of combustion cannot in the vicinity. The mountain has evidently been on fire for a great length of time, several acres above the part now under combustion, on which trees are standing of a great age, having, as it were, been steamed, and many of the stones upon it bearing the appearance of vitrification. The fire is still fire had previously been down the northern raging, and will probably continue to do so Materials from beascending with great fury the opposite and neath from time to time become ignited, southern eminence. From the circumstance whether by electricity, or other unknown of its being thus in a hollow between two cause, and the expansive power of the heat ridges of the same mountain, a former visitor and steam, shiver and split into huge masses was probably induced to give the clefts in the solid rock of sandstone, and thus form the mountain the appellation of a crater; continued chasms. The sulphureous and but, the fact is, the rock, as the subter- aluminous products of the mountain have raneous fire increases, is rent into several been successfully applied in the cure of the

About four miles along the shore from also observed, in 1828, to be on fire, evolving sulphureous vapours; and a beautifully crystallized mineral, which appeared, on examination, to be muriate of ammonia intermingled with sulphur, was collected from the margin of the crevices. This fire, howon Mount Wingen, of his second visit to

"The fire, since the period of my former

extinct portion of the mountain—the nor- of organic remains, of the nature of petrified thern elevation. There were still most splenwas burning with a white heat, and of amwhich suffocating fumes were incessantly The fire continued roaring beevolving neath, and stones thrown down into the chasms resounded to a great depth in an The scene of disruption, interior abyss. the rocks of solid sandstone cleft asunder, the innumerable fractures made on the surface, the falling in of the strata, the halfconsumed prostrate trunks of trees, and others only awaiting the slip of the rock beneath them to fall in their turn, the pernicious vapours arising around, amidst the roaring of the internal fires, and the white and red heat of the burning crevices, present an appearance on which the beholder cannot fail to gaze with wonder, and, at the same time, to lament his inability to account with any degree of certainty for the first natural cause of the spectacle before him

"At a little distance from the burning portions of Wingen, I picked up several amorphous specimens of cornelian, white, pinkish and blue; angular fragments of ribbon and fortification agates, and balls of agate, some of them filled with crystals, varying from the size of a pea to that of a hen's egg, and others of a blueish-white and clouded colour, having spots of white dispersed throughout them, which, if cut and polished, would present a very beautiful variety of this mineral. Mount Agate, also in the neighbourhood of Wingen, presented me with some fine specimens as well of agate (fortification and ribbon occurring in the same specimen,) as fragments of white and blueish cornelian; and had not the grass upon the mountain been so long and thick as it proved to be, I should, doubtless, have collected much finer.

"Several of the agates collected from Mount Wingen, upon examination, were found to have their surfaces crusted over with native copper, while others, from the same locality, presented a most beautiful portion of it which is now under combustion, sea, forming the strand at low water." the cast of a bivalvular fossil shell in sandstone, a species of terebratula; other similar Strzelecki's valuable work), shows the altispecimens have been met with on another tudes, in English feet, above the level of the part of the mountain. Only two specimens sea, of the most remarkable mountains,

bone, have hitherto been discovered in the did crystals of sulphur on the margins of neighbourhood of Mount Agate; viz. the the more extended crevices, where the fire sacrum of some large animal, on the Holdsworthy downs, and the second cervical vermonia on those of the less, from both of tebra of another, about ten miles west from Merton; but, in neither instance was the petrifaction imbedded in the subjacent strata. but merely lying on the surface of the soil. and, therefore, most probably, contemporary with the petrified wood, which is found scattered very abundantly over this tract of country Near the chain of the Kingdon Ponds, forming one of the sources of the Hunter, and rising in the dividing range a few miles N. by W. from Mount Wingen, are stumps of trees standing upright in the ground, apparently petrified on the spot where they formerly grew. In some places the wood is strongly impregnated with iron. About three miles along the coast south of Newcastle, in an upright position, at high-water mark, under the chiff, and beneath a bed of coal, was also lately found the butt of a petrified tree, which, on being broken, presented a fine black appearance, as passing into the state of jet, and on the top of the cliff at Newcastle on which the telegraph stands, imbedded at about a foot beneath the surface, lying in a horizontal position, and nearly at right angles to the strata of the cliff, the trunk of another, finely grained and white-both specimens being traversed by thin veins of chalcedony. which is exposed to view on the face of the cliffs, is of the independent formation, and appears to run generally in three parallel horizontal beds, but in some places with a varying dip It alternates, in one part of the cliff, with slaty clay, sandstone, and shale, with impressions of leaves, at another, with mill-stone grit and a hard chertzy rock Nodules of clay ironstone, and trunks and stems of arundinaceous plants in ironstone. are seen in abundance on the alternating strata of the cliff; and in one place a narrow bed of ironstone, bearing impressions of leaves, is remarkable; while thin laminæ with mon; some of those from Mount Agate of the same mineral, the surface of which 18 traversed by square and variously-shaped sections, are seen on several parts of the auriferous appearance. On Mount Wingen shore, both in the face of the cliff parallel we found, within but a few yards of that with the beds of coal, and extending into the

The following table (derived from Count

New South Wales and Port Phillip or just view of the relative elevation of the Victoria, as determined by the barometer, most remarkable positions in each prothose included in Port Phillip being given vince:-

lakes, watercourses, plains, and stations in here with the idea of affording a more

Name of Heights	Feet	Name of Heights	Feet
Transc or Excigition		· ·	
Peel Plains, New England	1,800	Guantewang, north-east of Wellington Vale .	1,410
Mount Mitchell	4,120	Camden, estate of James M'Arthur, Esq	248
Mount Lindesay	5,700	Mount Prudhoe, summit above the road	1,006
Mount Sturt	3,735	Stone Quarry Creek, below the bridge	482
River Condamine, 28° 10 S lat, 151° 40 E long	1,402	Crisp's Inn, Myrtle Creek, Camden County	783
Rocky Creek	1,717	Bed of Myrtle Creek	643
Brushy Valley, 28° 20 S lat , 151° 20 E long	1,504	Bargo River, Ford	771
Apple Tree Flat	1,091	Lapton's Inn	1,206
Dumaresq River, 28° 55 S lat, 150° 40 E long	840	Little Forest Hill	1,923
Glen River, 29° 5 lat, 151° 35 E long	1,049	Cutter's Inn, Camden County	1,967
Gwydir River, 29° 35 S lat 150° 25 E long	895	Mittagong Range [summit]	2,454
Mount Hundawar, or Harkwick, 30° 15 S lat , 150°	2,545	Cordeaux Farm	222
25 L long		Cockatoo Hill	2,356
Barrow Valley 30° 40 S lat, 150° 20 E long	808	Berrima Inn	2,096
Wallambora Ford 30° 40 S lat, 150° 25 E long	1,016	Bed of Wingecarrabee River	2,058
Mount Bathurst 31° 5 S lat, 151° 50 E long	4,000	Bed of Black Bob's Creek, under the bridge	2 051
Glen Apsley River, 31° 5 S lat , 152° E long	1,000	The Kentish Arms Inn, three miles beyond Mid	2,028
Bathurst Cataract, New England	230	way Rivulet	
Beckett s Cataract "	150	Bed of Midway Rivulet, Camden County	2,003
Mount Sea View	6,000	Summit of Stony Hill	2,400
Marquarie Cataract, 31° 55 S lat , 148° 10 E long	680	Wombat Brush terrace above Paddy's River	2,128
Summit of Lapstone Hill, Cook County	747	Ford of Paddy's River, Camden County	1,856
Springwood, depot, Cook County	1,147	Arthursleigh estate of H M'Arthur, Esq , Argyle Co	1 977
Station on the Mount Road, Blue Mountains	1,707	Norwood Argyle County	2,116
Caley's Repulse, Cook County, Blue Mountains	1,868	Rosseville House	2,057
Twenty four Miles Hollow, Cook Co, Blue Mountains	2 738	Breadalbane Plains	2,278
King Table Land, Cook County, Blue Mountains	2,790	Summit of Hill, south of Wallagoray	2,606
Stone Quarry, one mile beyond King's Table	2,882	Farrago Ponds, Argyle County	2,264
Weather Board Hut	2,844	Gidleigh, estate of Captain P P King	2,358
Mount Hay	2 425	Sugar Loaf, or Squall Hill, near Gidleigh	3,288
Mount Tomah	3,240	Big Creek, near the Gap through the Black Range	2,979
Foot of Mount Victoria, Flagan's House	2,607	Head of Big Creek and Stony Creek	3,136
Mount George	3,620	Summit of Prospect Hill	3,275
Bridge over Butler's Rivulet, Vale of Clywd	2,188	Last Hill	3 176
Mount York, Vale of Clywd, Blue Mountains	3 440	Wollondilly River, below Rosseville	1,971
Foot of Mount York, Collet's Farm	2,180	" at the Junction of Paddy's River	1,840
Mount Adine	3,736	" at the Ford of Arthursleigh	1,830
Ford at Cox s River, Vale of Clywd	2,052	at Detley Crossing Place	1 752
Fish River, on the road to Bathurst .	3 220	Yass River Rivulet	1 311
Military Station Blue Mountains	3 010	Nackie Nackie Hill	2 242
Badger Brush Ridge	3,290	Mount Kosciuszko, Australian Alps	6,500
Police Station Dividing Range Bathurst	2 910	Mount Dargal "	5,490
Cox's River, before reaching Blaxland's	2 266	Mount Pinnabar "	4,100
Mount Blaxland [the highest summit]	3,256	Cowrang Creek	1,350 3,800
Jock's Bridge Hill beyond Jock's Bridge	2,921	Dividing Range in the Omeo County	1 850
	3,496 2,310	Source of the Mitta Mitta River Lake Omeo	3,100
Bathurst Town Summer Hill, Frederick Valley	3,010	Second branch of Mitta-Mitta River	1,900
Boree Plains	1,560		210
Mount Canoblas, Wellington County	4,610	The average height of the flats in Gipps' Land	2,510
Macquarie River, at Wellington	1,439	Range between Gipps' Land and Port Western	2,350
Captain Ryan's, Boree Station	1,992	Mount Wilson, Wilson's Promontory Dutzon, a sheep station of P King, Esq., lat 35°27,	-
Molongorang (Mr Passmore's)	2.062	long 147° 53	1,844
Heregal (Vir Maxwell's Station)	1,616	Ellershe, sheep station	1 266
Transfer (TT Transfer a Deamon)	1,010	Trees on the section	2 200

RIVERS, CREEKS, AND HARBOURS -The with the warning given by captain Sturt to rivers of Australia, not even excepting the those of his readers not conversant with the Murray, bear a very much smaller proportion peculiarities of Australian watercourses. "A to the size of that continent, and occupy a creek," he says, "is not always an arm of far less prominent geographical position than the sea. The same term is used to designate do those of any other country of similar a watercourse, whether large or small, in extent, and they afford very limited commu- which the winter torrents may or may not mication between the coast and the interior have left a chain of ponds. Such a water-Of them, therefore, and for somewhat similar course could hardly be called a river, since it reasons of the creeks, lakes, and lagoons of only flows during heavy rains, after which it New South Wales, a brief notice may suffice, entirely depends on the character of the especially as many of them have been already soil through which it runs, whether any alluded to in the section on inland explora- water remains in it or not" "A lagoon is tion; but this notice it may be well to preface a shallow lake, it generally constitutes the

back water of some river, and is speedily

dried up."

The number of constantly flowing streams in New South Wales is very limited, but an all-wise Providence has in a most remarkable manner provided a remedy for this deficiency by the peculiar construction of the channels of the greater part of the rivers, which form a succession of deep reservoirs, being in fact a connected series of ponds or water-holes. This wonderful provision for the exigencies of animal existence is rendered the more striking by the character of the Australian aborigines, whose want of constructive ability manifested in so many respects, clearly indicates their incapacity of discovering a means by which the superabundance of one season might be made to supply the insufficiency of another.

The first stream of importance explored by the early settlers at Sydney Cove, and which, until the discovery of the Murray, was the broadest fresh water stream known in Australia, was named by governor Phillip the Hawkesbury. Its course, when traced inland from Broken Bay, where it disembogues, becomes extremely tortuous, the distance of Windsor (a town built upon it,) being not more than thirty-five miles from the sea in a direct line, but by the windings of the river, 140 miles; the rise of tide is about four feet, and the water fresh forty miles below Windsor, at which place it is of considerable size, and navigable for vessels of 100 tons for four miles above the town little higher up it is joined by a mountain stream called the Grose, which issues from a remarkable cleft in the Blue Mountains in the vicinity of the pretty town of Rich nond, about forty miles from Sydney. Hawkesbury, while flowing along the base o these mountains, is fed by numerous tribu tary torrents descending from narrow gorges which after heavy rains cause it frequently to overflow its banks as it approaches the sea; in one instance it rose, near the town of Windsor, ninety-three feet above its ordi nary level.* Broken Bay extends inland to a considerable distance, and is divided into many creeks and inlets, forming excellen havens, two of which, according to Phillip are capable of containing the whole British navy. The Hawkesbury, previous to its receiving the Grose, is called the Nepean or rather it is a continuation of that river, which, rising in Camden country, forms the boundary for a while between that count · Wentworth's Statistical Account of N. S. Wales.

and Cumberland, and subsequently between he counties of Cumberland and Cook. cenery along the Nepean is magnificent; mmediately beside it the Blue Mountains rise in frowning majesty, to a perpendicular neight of nearly 3,000 feet, while along the ertile borders of the stream are fields of heat, barley, maize, bran, peas, clover, &c., to the extent of several thousand acres. The point at which I first saw the Nepean river, was at the estate of Mr S Terry, the wealthy emancipist previously mentioned As far as the eye could reach, nothing could be seen but the yellow waving corn, save when the view was bounded by the gigantic buttresses of the mountain barrier. I never beheld a finer farm in Europe than Mr Terry's; and while enjoying the chcerful cene, I could not but feel proud of belongng to a nation, who through her outcast and erring children had extracted from the stubborn soil of a distant land such admirable The Macdonald and the Colo arc the chief tributaries of the Hawkesbury, and the Warragamba of the Nepean. The Warragamba (a continuation of the Wollondilly) receives the Cox twenty miles to the southward of Emu Plains. The Cox pursues its course through a wild region, and in parts could be traced only by scrambling on foot, or by following out the several extremities of the mountain ranges which overhang its rocky channel.

Hunter River disembogues in the sea at the harbour of Newcastle, Port Hunter, a safe haven, sufficiently capacious for vessels of 300 tons burthen, fifty-nine miles N 22° E., from the entrance of Port Jackson The Hunter, formerly called the Coal River is formed by several streams flowing from the Blue Mountains, and is navigable for fifty miles from Newcastle, by small craft of thirty to forty tons burthen Beyond this distance there are several shallows, which only admit the passage of boats over them There are three branches to the Hunter called the Upper, the Lower, and the Middle the two former are navigable for boats for about 120 miles, and the latter for upward of 200 miles, but the branches are all hable to sudden and terrific inundations, owing to the rapid descent of torrents from the Blue Mountains. In consequence of the fertility of the soil along the Hunter, and the extent of water communication which exists, this district is one of the finest in the colony. A large number of respectable farms skirt the banks of the river and the country

in excellent pasture, and affording susteherds of cattle that depasture amidst this wild and beautiful scenery.

Port Stephens, situated about 100 miles from Jackson, is a fine harbour; the narrow entrance between rocky headlands, opens into an expanse about two miles in length: then narrowing, forms a channel, which admits vessels of considerable burthen, to a second bay perfectly land-locked. The little river Karuah, which falls into it, affords a means of communication some distance into the interior; it is said to be navigable as far as Booral, which is twenty miles from Port Stephens. The Myall, a still smaller stream, which has its embouche in Port Stephens, opens into some extensive lakes, situate along the coast, separated only by a narrow strip of land from the ocean.

Manning River forms the northern boundary of Gloucester county; it disembogues into the ocean by two mouths, called Farquhar and Harrington inlets, which are divided by a singularly-shaped island, named Mitchell Island: neither of them afford more than a harbour for boats, for which, indeed, the navigation of the Manning is alone adapted. It flows from the eastern side of Liverpool range: its banks have good soil and fine scenery.

Hastings River, after a course of about 100 miles, joins the sea at Port Macquarie, about 220 miles to the north-east of Port Jackson, in 31° 25′ 45″ S. lat., 152° 53′ 54″ E. long. Port Macquarie is a bar harbour, with at least nine feet low water spring The bar (composed of soft sand) extends for 200 yards; beyond this, the water immediately deepens to two and three fathoms; within the port, the soundings are five and six fathoms, which depth continues for nearly ten miles, when shoals confine the navigation to crafts drawing six or eight feet. That depth continues for eight miles, where the rapids commence. The source of the four miles, and so far only for vessels not ex Hastings has been already mentioned (p. 433), ceeding sixty or seventy tons burden. The

wears an aspect resembling the rich pastoral cording to Mr. Hodgkinson, it rises (in 81° scenery of Devonshire. The valley of the 50' S. lat., 151° 50' E. long.), "at Mount Wollombi extends in a northerly direction Warragembi, one of the summits on the towards Hunter's River, for about thirty range which divides the basin of the Man-It is bounded on either side by ning River from that of the M'Leay. This mountain ranges, covered with timber to range branches out at Mount Warragembi, their summits. Numerous valleys, or, as so as to form the basin of the Hastings the settlers call them, arms, branch off on River, which consequently does not rise in either side; some stretching twenty or thirty the great main chain of mountains dividing miles among the mountains, all abounding the eastern and western waters, as some authors have averred." Mr. Hodgkinson, nance to numerous flocks of sheep, and in the interesting work from which the above observation is taken—Australia, from Port Macquarie to Moreton Bay-notices an error with regard to the Hastings river, made by me in a previous work, for which I cannot, at this lapse of time, at all account. He makes due and kindly allowance for errors "almost unavoidable in writing a work of such magnitude as Mr. Montgomery Martin's History of all the British Colonies;" but he is, perhaps, scarcely aware of the difficulty which existed at the period at which it was written (1834-5), of obtaining accurate and sufficient data concerning many of our vast possessions, and especially Australia.

> The country bordering on the Hastings undulates pleasingly in hills and dales lightly clothed with good timber; to the north-east the river opens into reaches of great width and beauty. The Maria river, which empties itself into the Hastings at John's Plains, is navigable, according to Dr. Lang, for "forty miles from its mouth," but he must mean The Wilson river, only for small craft. another tributary of the Hastings, is navigable for about twenty miles, the alluvial soil on its banks is of excellent quality, as evinced in the produce of a series of farms extending for twelve or fifteen miles in a continuous chain. A few miles to the southeast of Port Macquarie are some extensive lakes, which communicate with the ocean.

The MacLeay River falls into the sea at Trial Bay, in 34° 40' S. lat. Trial Bay is a good roadstead, being completely protected from all winds but those between north and east, from which quarters the winds are seldom strong. The entrance to the river is obstructed by a bar having about eleven feet of water on it; it is described by captain King as being navigable for vessels of 300 tons to fifty-seven miles above its mouth; but Mr. Hodgkinson, when recently surveying it, found it only navigable for thirtyon the authority of count Strzelecki; ac- Apsley joins the MacLeay from the south-

west; above this junction the scenery is nearest point to Sydney, at which he found described* as assuming a grand alpine chathe magnificent variety of pine generally racter, both rivers hurrying along rapidly descending beds, through narrow glens of trees," he says, "occur here all of a sudden, frowning precipices, 3,000 feet in height, whilst the surrounding mountains frequently attain an elevation of 6,000 feet above the level of the sea. Tremendous cataracts are of continual occurrence; at one of them the whole river has a perpendicular fall of 250 feet, and after raging in a furious torrent, half foam and vapour, along a steep inclined plane, it again dashes down another perpendicular fall of 100 feet, the total descent of its waters in this short distance being probably little under 500 feet. After tracing the MacLeay upwards, through this rugged country, its bed rising rapidly to a very considerable elevation above the sea, we at length emerge on a gently rising table land. From this point to its sources, the MacLeay river changes its character, and assumes similar features to the New England streams, flowing west to join the Peel river, smaller trees sparingly scattered over pasturage of quite different aspect to that bordering the lower MacLeay, being here observable.

The Nambucca River, whose mouth is about eleven miles to the north of the MacLeay, has its entrance obstructed by a rocky impassable bar: it is formed by several mountain streams rising in bushy gullies, and its banks consist of mangroves, tea-tree swamps dense forest and cedar brushes "The nettletree," (says Mr. Hodgkinson,) "attains a very large size at the MacLeay and Nambucca rivers, being often six feet in diameter, and of a corresponding height, its wood is very soft and spongy, and its leaves, which are of great size, resemble in shape those of the mulberry, and, at the same time, possess the bright green velvet appearance of the geranium leaf. The slightest touch of one of these leaves occasions a most acute stinging pain; but horses suffer infinitely worse than men, from contact with the leaves of the nettle-tree, as their skin rises in large blisters, and great temporary constitutional derangement seems to take place."

The Coohalli, a small stream which filters lengen. through a sandbank to the sea, about six miles north of the embouchure of the Nambucca, is deserving of mention, from its being noted by Mr. Hodgkinson as the furthest point south, and, consequently, the

* Hodgkinson's Australia from Port Macquarie to Moreton Bay.

known as the "Moreton Bay pine." "These n considerable numbers, and of great size and altitude, although I have not detected one single individual pine in any of the brushes of the Nambucca, MacLeay, Hastings, or Manning rivers, or, indeed, anywhere south of this point"

Bellengen River was discovered by a party of sawyers, in 1841. It is a fresh-water stream, about the size of the Hastings; but, notwithstanding the luxuriant vegetation on its banks, is rendered unavailable for grazing purposes by the precipitous heights which hem in and contract its bed The sawyers, however, must have considered their discovery a very fortunate one, for Mr. Hodgkinson, who explored it in 1842, speaks very highly of the quality of the timber growing on its banks, and those of its tributary, the Odalberree, the trunks of the cedar and rosewood trees being often six feet in diameter and ninety feet high, before they throw out a single branch.

Clarence River disembogues in Shoal Bay, in 29° 30', where its entrance is obstructed by a bar having about eleven feet of water on it The Clarence is remarkable for its great breadth and large volume of water (compared with other rivers of Australia), and considering the shortness of its course Its reaches are said to be longer and wider than those of any stream on the coast of Australia, and navigable for large steamers to a considerable distance up the river; the Clarence being navigable, for some craft, for nearly ninety miles A few miles above its mouth is an island, containing an area of above 1,500 acres, and many smaller ones occur higher up the river. The country on its banks available for grazing purposes being of considerable extent and excellent quality, a great number of squatters have formed stations upon it. The Clarence rises in the dividing range, and receives several large tributaries, one of which, the Ora-Ora, rises in the lofty mountains which divide the basin of the Clarence from the Bel-

Richmond River (still tracing the coast in a northerly direction,) falls into the sea near Lennox Head, in 28° 55' S. lat. The bar at its mouth has from eight to ten feet of water upon it, above which the river is navigable for small craft for about thirty miles. Its sources are not yet ascertained, but its main stream appears to rise in the dividing range, near Wilson's Peak and Coke's Head. There is much good available land on its banks, and some fine cedar.

Tweed River, or, rather, creek, for it is but a large salt-water inlet, yet its extensive reaches are navigable for large boats to a distance of upwards of forty miles from its bar, which has been crossed by a schooner of sixty tons burden.

Brisbane River.—Proceeding along the coast, we arrive at Moreton Bay, which is sheltered by two narrow islands of from Moreton, and Stradbroke Island. The bay is said to be sixty miles in extent; it receives several streams, the most important of which are the Logan, the Brisbane, and the Pumicestone river. The Brisbane disembogues in 27° 1' S. lat , 153° 26' E. long The bar at its mouth has eighteen feet of water on it. This river was discovered, in 1823, by capmakes the following remarks concerning

"When examining Moreton Bay, we had the satisfaction to find the tide sweeping up a considerable inlet, between the first mangrove island and the main land The muddiness and taste of the water, together with the abundance of fresh-water molluscæ. assured us we were entering a large river, and a few hours ended our anxiety on this point by the water becoming perfectly fresh, while no diminution had taken place in the size of the river after passing what I called Sea Reach. At sunset we had proceeded about twenty miles up the river scenery was peculiarly beautiful; the country along the banks alternately hilly and level, but not flooded, the soil of the finest description of brushwood land, on which grew timber of great magnitude, and of various species, some of which were quite unknown to us. Among others, a magnificent species of pine was in great abundance. The timber on the hills was also good; and to the south-east, a little distance from the river, were several large brushes or forests of the cupressus Australis, of very large size. Up to this point the river was navigable for vessels not drawing more than sixteen feet water. The tide rose about five feet, being the same as at the entrance We proceeded about thirty miles further, no diminution having taken place either in the breadth or depth of the river, excepting in one place for the extent of thirty yards, where a ridge of detached rocks extended across the river, not having more than twelve feet upon them at high water. From this point to Termination Hill the river continued of nearly uniform size. The tide ascends daily fifty miles from the mouth of the Brisbane, flowing also up the Bremer, the depth of whose channel it augments by eight or more feet. The country on either side is of very superior description, and equally well adapted for cultivation or graxing, the timber being abundant, and fit for all the purposes of domestic use or exportation. The pine trees, should they prove of good quality, are of a scantling sufficient for

the largest ships some measured upwards of thirty inches in diameter, and from fifty to eighty feet without a branch."

Subsequent examination has verified, to the fullest degree, this favourable account; and the capabilities of the valuable and beautiful tract of country, traversed by the Brisbane and its tributaries, even surpass his expectations in their capacity of supporting a numerous population, and of producing, in abundance, the tropical products of sugar, cotton, coffee, silk, tobacco, &c. In a subsequent part of his despatch, captain Oxley fifteen to twenty miles in length, called thus expresses himself concerning the source of the new-found stream :-- "A consideration of all the circumstances connected with the appearance of the river, justifies me in entertaining a strong behef that the sources of this river will not be found in a mountamous country. Most probably it issues from some large collection of interior waters, the reservoir of those streams crossed by me tain Oxley, who, in his official despatch, during an expedition of discovery in 1818," (see p. 383), "and which had a northerly course. Whatever may be its origin, it is by far the largest fresh-water river on the east coast of New South Wales." Captain Oxley's surmise concerning the sources of the Brisbane, and the length of its course, have been disproved by more recent surveys, the Brisbane having been ascertained to take its rise in the dividing range, opposite to and in a straight line only sixty miles from Moreton Bay. The width of its basin, its tortuous course, and numerous tributaries, however, soon render it an important stream. It is joined on the south side by the Bremer river rising near Mount Frazer, on whose banks coal and limestone are found in large quantities.

Wide Bay is a good port, having in its entrance a channel of not less than three fathoms deep: it communicates with Hervey Bay, thus completing the insulation of Great Sandy, or Frazer's Island, whose northeastern extremity was named by captain Cook, Sandy Cape. Mr. R. S. Russell, who visited the bay in 1842, thus describes it:-"Frazer's Island, which forms Wide Bay, or, more properly speaking, 'Sound,' for it is twenty-five miles long, runs nearly parallel to the main, trending more easterly towards. the northern extremity, thereby leaving a wide open entrance. At the southern extremity the island is not more than threequarters of a mile from the main. A spit of sand comes out both from the island and from the main; but by not attempting to

run in until the round mountain, called bed of the river, near its source, lies in a Boppol, is well open between the two shores, alley of the dividing range, apparently the channel is clear and good with at least slevated about 1,500 feet above the level of six fathoms water." Mr. Russell, in his the sea, receiving small tributaries from the account of this excursion, subsequently states higher country, both east and west. The that he found in the southerly part of the bed here was sandy, with much of the teabay, to which his exploration was confined, tree growing in and about it; high reeds mnumerable shoals and islets; one large grew also along the edges of the reaches navigable river, called by the natives Mono- which, thirty or forty miles farther (tracing bocola, without a bar, but having at its the river from its source), increase greatly mouth sand-banks dry at low water, which in length, while many streams, both from leave only a narrow channel between them. the east and west, empty themselves into The tide flows about thirty miles up, and the the main channel, the land becoming more river is navigable for that distance for vessels mountainous, and the valleys more fertile; a drawing eight feet; after losing the tide it considerable tributary, called the Stuart, soon becomes small, but can be ascended by flows in from the eastward. The Boyne, boats for about twenty miles further. The though after the confluence of the Stuart banks are low, but generally well timbered it contains a volume of water very unusual with large trees, and ducks and black swans in Australian streams, cannot, it is feared, abound. To the country near the head of the be used for internal communication, as it boat navigation of this stream the natives flows, in many parts, rapidly over rocky beds. resort in large numbers, to feed on the fruit The river was traced by its discoverers for of the Bunya-Bunya tree, a species of pine, about 300 miles, or to about 24° 15′ S. growing, according to Mr Russell, as straight lat; when they turned back, it was flowas an arrow to the height of from 100 to 300 ing considerably to the eastward of north, which are excellent when roasted, but taste, the sea when raw, like the horse-chestnut *

direction, for about the same distance

Bustard Bay, in 24° 4' S. lat. and 208° 18' E long., was so named by captain Cook, in honour of a bird of the bustard species, about the size of a turkey, caught here, which he speaks of as the best bird he had eaten since he left England.

Boyne River, or rather, the upper portion of that stream, was discovered by Mr R S Russell, in his second exploring expedition of 1842, but only partially explored. The

* Among a native tribe on this river, Mr Russell found a white man, a convict named Davis, who had absconded from the penal settlement fourteen years before, and had never since been heard of He had been transported when only eleven years of age, and had run away two years after; he appeared at first to have almost entirely forgotten his own language, but soon recovering his knowledge of it, he was persuaded to return to Moreton Bay The natives shewed great sorrow at parting from him, and followed him a long way down the banks of the river with loud lamentations. The statement made by Davis concerning the aborigines was to the following effect -That they supposed all their own men who had died or been killed in battle to become white men, because, before eating them (for they are cannibals) they draw the skin off, and wash the flesh before cutting it up When flayed in this way the flesh of a black man is perfectly white. They believe he becomes a white ghost in another country beyond the sea. Accord-VOL. I.

It bears a large cone full of nuts, and they were, apparently, not far from

Port Curtis, into which a river called the Hervey Bay is fifty miles wide, at its Boyne, and considered by Mr Russell idenmouth, and extends inland, in a southerly tical with that above described, disembogues, 1s m 23° 51′ 45″ S lat., and 151° 24′ E long. (ten degrees east of Sydney); it is reported to be an excellent harbour, which, through the passage of entrance recently discovered by captain Stanley, is of very easy access for shipping of any burthen. The coast line from this point has been described in a previous section; we therefore return to Broken Bay, premising, however, that the rivers of New South Wales. south of Sydney, are generally inferior to

> ingly, when they first heard of whites, they supposed them to be the ghosts of their own dead come back; and if any one traced a fancied resemblance in a white man to a deceased relation or friend, he took him under his protection, in the full persuasion that it was his son, brother, or whoever it might be, returned to him In such a case a white man has nothing to fear from the tribe to which his patron belongs They will kill a fat white man sometimes, to eat, it he is not owned by any of the tribe as some ghost o a returned relation, but they will not skin him as they suppose him to have been already skinned when eaten as a black In cutting a man up they open his back, and having extracted the bones from the legs and arms, these are eaten by the men as being the tit bits. They then cut the head open and pick it the viscera and heart are given to their gins (wives) whom they use worse than dogs.—See Journal of Royal Geographical Society, vol. xv.

those on the north, in both length of course channel is a ravine, about 1,500 feet below and volume of water; and, therefore, few of the ordinary level of the country between it them need any especial notice, their names and the Wollondilly. A singular grandeur and situations being sufficiently delineated is imparted to the scenery of the Shoalon the map.

Paramatta River is little more than an extension of Port Jackson, but very useful as affording the means of water communication between Sydney and Paramatta, being navigable for that distance (eighteen miles) by second-class steam-boats and small craft. Port Jackson has been already mentioned. and also Botany Bay; the north point of entrance to the latter is formed by Cape Banks, and the south by Cape Solander, in 34° 0′ 45" S lat, 151° 15' 50" E long A plate fixed in the rock of this latter cape. records the first visit of captain Cook.

George River disembogues in Botany Bay, after collecting chiefly all the waters to the eastward, between the Hawkesbury and the Small vessels ascend the river as far as Liverpool, which, following the windings of half that distance; the water near Liverpool is stated by Mr. Wentworth to be occasionally brackish, during the long summer droughts.

Port Hacking, as far as I am aware, has not been specially surveyed; we gather from Flinders' brief account, that it has threeand-a-half fathoms in the entrance; that it divides into three branches, and carries from three to five fathoms water in the middle one, at the distance of two miles from the sea.

Red Point, further to the southward, in 34° 29' S. lat, is a remarkable headland situated on the north-east side of the peninsula which incloses Lake Illawarra on the north. It acquired its name from the dull red colour of its cliffs; on it are four hillocks, with the sea.

of seventy or eighty tons burthen.*

haven, by precipices, consisting, at one part, of hmestone of a dark grey colour, and containing very imperfect fragments of shells -and at another, of granite.

Among the peculiar features of these lofty river banks are many remarkable hollows, called "hoppers," by the country people, from the water sinking into them, as grain subsides in the hopper of a mill. country on the upper part of the Shoalhaven river comprises much good land; the river flows there nearly on a level with the surface, and resembles an English stream; the temperature, at the elevation of about 2,000 feet above the sea, being also so low, in summer, that potatoes and gooseberries, for both of which the climate of Sydney is too hot, grow there luxuriantly.+

About two miles from the mouth of this the stream, is about twenty-four miles from river is a small port, called by the same Botany Bay, though, in a direct line, only name (Shoalhaven), which it well merits, the entrance being choked with sand, and the interior with banks of mud, leaving, however, a sufficient channel for boats.

Jervis Bay extends about three leagues from north to south, and nearly two in breadth. Its east side is sheltered by a peninsula, the bight behind which (named Crookhaven) is separated from the bay by an 1sthmus of not more than 400 yards wide. The north point of the entrance to Hervey Bay, called Point Perpendicular, is (according to heutenant Jeffreys) in 35° 6′ 28" S lat; the south point is formed by a small low island lying contiguous to Cape George. between which there is a passage, though a The entrance is about a very bad one. which present the form of a double side- mile-and-a-half, or two miles wide, with a saddle; it may also be recognised by a depth of fifteen to twenty fathoms, and, strangely shaped hill, about eight miles from within, the soundings are regular, from fourit, named Hat hill, by captain Cook. There teen to ten fathoms, decreasing to eight and are two rocky islands off the point, and at seven fathoms near the shore on either side. a short distance to the northward, another There is sufficient room for ships of any group, called Martin's Isles. Illawarra lake size to work in or out; but there are danis a large salt-water lake communicating gers difficult to guard against. A sunken rock hes about one and one-third mile Point Bass is the next marked feature on within the north point of the entrance, and the coast, to the south of which Shoalhaven a mile distant from the shore; and (judging River falls into the sea, between the counties from the plan of Mr. Weatherall, published of Camden and St. Vincent. This stream is by the Hydrographical Office, Admiralty,) navigable for about twenty miles, for vessels reefs seem to extend from almost all the Its points in the bay. The best and most con-

† Mitchell's Expeditions into Australia.

^{*} Wentworth's New South Wales.

venient anchorage is from six to ten fathoms, distance of about seven leagues, is of modeunder Bowen's Island.

Cape George, in 35° 10' S. lat., lies to the ward, with three islands contiguous to it. southward of Jervis Bay; the next inlet is shores, called St. George's Basin, commu- interest, but as nothing larger than boats nicates with the sea. Still proceeding south, can find shelter in any other part of this its resembling a square dove-house with a portant to whalers and other ships passing dome at the top, in 35° 20' 30" S. lat., and along this coast." The shores of the bay 30° 35′ S. lat.

Clyde River, which is described as a fine, clear, and capacious river, with nine feet water on the bar, and deepening within to E. long. "Wood, in abundance," says six fathoms, empties itself into Bateman's Flinders, "can be procured on every side of miles within the bay. The bay is about six good anchor.

erable elevation, which, it is said, may be to Cape Howe is bold and mostly rocky. seen at the distance of twenty leagues. six miles to the eastward of it lies Monfrom north to south, with a depth of twelve it. fathoms near its west side, where ships may anchor, but on a rocky bottom. There are some rocks near the south-west end of the island. All the coast between this promontory and Cape Howe may be safely approached, to a reasonable distance, as soundings extend to the distance of three or four leagues.

captain Flinders:-" A strong wind, which Mountains, several streams were discovered burst from the south, obliged Mr. Bass (in a flowing in a westerly direction, of which two whale boat), to run for a gap in the land, of the most considerable, the Lachlan and which had just before been noticed. Here, Macquarie, were traced in their different on a little beach, at the mouth of an inlet, courses, by captain Oxley, to their apparent across which the sea was breaking, the boat termination in reedy and impassable mowas hauled up for the night. Next morning, rasses (page 382,) in which, however, they the inlet being free from breakers, he are not finally lost, it having been subseentered the prettiest little model of a har- quently ascertained that the waters of the bour he had ever seen. Unfortunately, it is marshes in which the Lachlan is for a time but a model, for although the shelter within lost, reunite in one channel and flow into the be complete for small craft, yet the depth Murrumbidgee, while those of the Macquarie over the bar is too small even for boats, are drained in a similar manner into the except at high water, when there is eight or Darling. Lachlan River has its origin in nine feet." The intermediate land between the mountains bordering Argyle county,

rate elevation, bending a little to the east-

"Twofold Bay," says captain Flinders, Sussex Haven, by which a lake with broken "is not of itself worthy of any particular the next land-marks are the Pigeon-house, coast, from Corner Inlet, or from Furnaux's a peaked hill so called by captain Cook, from Isles to Jervis Bay, it thereby becomes imthe perpendicular cliffs of Point Upright, in are of moderate elevation, and consist of steep heads, rocky points, and sandy beaches. Snug Cove is situated in the north-west angle of the bay in 37° 4′ S lat, 150° 3′ Bay. Lieutenant Johnson carried a depth the bay; but there are only two places where of seven to four fathoms upwards of twenty fresh water was found, and that not very One of these was a swampy pond miles wide, and contains several little islands, upon the low neck near Snug Cove, where behind which small vessels frequently take casks might be filled without much difficulty, the other is near the inferior anchorage on Moruya River falls into the sea at Moruya the south side of the bay" To the southor Broule Bay, to the south-east of which is west of Twofold Bay lies Green Cape, which Cape Dromedary, a projecting headland, is smooth and sloping, with a deep bight or with a double mountain over it of consid- bay to the southward, the coast from thence

Cape Howe, the south-east point of Aus-The Cape is in 36° 18' S. lat, and about tralia, and the southern limit of the coastline of New South Wales, is a low point of tague Island, of nearly two miles in length rocks and sand, with a small island close to It may be easily recognized by the trending of the coast, which is nearly west on one side and north on the other, and also by some round hills in the vicinity.

The westerly or inland rivers of New South Wales, occupied a considerable portion of the section on internal exploration. We have already seen that after the successful enterprize of Messrs. Blaxland, Wentworth, and Barmouth Harbour is thus mentioned by Lawson had found a pass over the Blue Barmouth Harbour and Twofold Bay, a one of its most easterly sources being Derin-

westerly direction, receiving in 33° 5′ 20" the north-east, called Goobang Creek, which outer bank. But its waters were gone, with has its sources in the ravines between Har-the exception of a few small ponds, which vey's and Croker's ranges.* The Lachlan, still remained in the deepest parts of its bed. after the junction of the Goobang, changes its direction from north-west to south-west, and a creek called by the natives "Cudjallagong" leaves the river and conveys its whale-boats 1,600 miles over land, without waters almost straight back from their course finding a river where I could use them; to supply Regent's Lake, which, when discovered by Oxley, in 1817, was described by him as a "noble lake;" but when visited by Mitchell, in 1836, appeared for the most part a plain covered with luxuriant grass, with some water lodged on the most eastern part, but in no place more than a foot deep. Innumerable ducks had taken refuge there, and ridge of mountains situated to the southalso a great number of black swans and pelicans, all standing high upon their legs, above the shallow water. Unlike the water of eighty miles from the sea, and after re-Lake George, which is brackish, that of ceiving Yass river, the Coodrabidgee, the Regent's Lake was perfectly sweet even in its shallow state. It abounds with large fresh-water mussel; on its northern margin, and a good way within the line of the water, stood dead trees of a full-grown size, apparently killed by too much water, too plainly shewing, like the trees similarly situated in Lake George and Lake Bathurst, to what long periods the extremes of drought and moisture may extend in this singular country. That the lake is sometimes a splendid sheet of water was obvious enough in the line of beach along the shores. At two different places the banks are so low that in high floods the water must flow over from the lake, and probably thus supplies Campbell's Lake, and another to the northward of Regent's Lake, named "Goorongully." Following the course of the Lachlan from Cudjallagong creek, we arrive at the farthest spot to which Oxley traced it, (according to Mitchell in 33° 41′ 10″ S. lat, 145° 9′ E. long.;) but instead of terminating there, its banks at fifty miles below this spot are backed on both sides by rising ground until it turns finally southward towards the Murrumbidgee, which it joins in 34° 25' S. lat., it was sufficiently shallow to admit of taking and 144° 3′ E. long. Sir Thomas Mitchell the drays over, without the trouble of unmakes the following observations on the ocloading them." Still lower, it increased in

* It is rather remarkable that captain Oxley, when exploring the Lachlan, should have omitted to survey below Mount Cunningham, and were the sole cause that portion of it where it is joined by the Goobang; of the swampy appearance which captain Oxley obespecially as, according to Sir F. L. Mitchell, it is served to the westward.

gullen ponds, which arise in the southern of casion of his exploring this river in 1836: the three open flats of grassy land called "I beheld in the Lachlan all the features of Bredalbane Plains; thence it runs in a north- the Darling, but on a somewhat smaller scale. The same sort of large gum trees, S. lat., 147° 13′ 10″ E. long., a tributary from steep, soft, muddy banks; a margin and an Such was now the state of that river down which my predecessor's boats had floated. I had, during the last winter, drawn my whereas Mr. Oxley had twice retired by nearly the same routes, and in the same season of the year, from supposed inland seas!" The Lachlan, therefore, although occasionally in flood, cannot be depended upon as a navigable river.

Murrumbidgee River rises in the western

ward of the parallel of 35°, and under the meridian of 149°, at a distance of about Tumut, or Doomot, and some other minor streams, which fall into it at an early stage of its progress, pursues a long and tortuous course for upwards of 300 statute miles, without deriving the slightest increase from the country it waters. As its course extends to the westward of the meridian 147°, the river falls on a low level; the hills of sandstone rock, which give a picturesque appearance to the lands on its banks, higher up the stream, disappear, and flats of alluvial deposit occupy their place. From the account of Sturt in 1829-30, and of Mitchell in 1836, we gather that the Murrumbidgee is, to a certain extent, for a very considerable distance, a navigable river. The former authority, speaking of it at the end of the year 1829, describes it, not far from the junction of the Tumut, as "a stream whose current it would have been difficult to breast, and whose waters, foaming among rocks or circling in eddies, gave early promise of a reckless course. It must have been somewhat below its ordinary level, and averaged

the floods of this stream which inundate the country

a breadth of about eighty feet." Lower

down it "expanded into a fretful rapid, but

size, but preserved the characteristics of a | ts junction with the Murray, at Weveba mountain stream, having alternate rapids and deep pools, being in many places encumbered with fallen timber, and generally running over a shingly bed, "Below Pontebadgery it expands. Further on, it had been swollen considerably by rains, and rolled along at the rate of three miles an hour. preserving a medium width of 150 feet" Captain Sturt subsequently says—"During in an able article, entitled, "Are the interior the night it fell considerably, but it still waters of Australia navigable?" has the folpoured along a vast body of water, possessing a strong current. It kept a very we have just examined:—"The Lachlan is umform breadth of from 150 to 170 feet, and a depth of from four to twenty feet Its channel, though occasionally much encumbered with fallen timber, was large enough to contain twice the volume of water then in it." The current was so strong, as to carry the "swimmers" out of their straight proceeded from twenty-eight to thirty miles by the river's windings, but a little beyond this, one of the boats struck on a log, and went down in twelve feet water. Larger boats could have navigated the stream, which was deep and strong The channel, however, contracted lower down, and became filled with immense trees, swept there by floods The whale-boat again struck on a log, and not long after, upon a line of sunken rocks of ironstone. In longitude 143°, a running stream, the first for 340 miles, joined the large a portion of the western waters of river, which, shortly after, had a breadth of 200 feet, with an average depth of from twelve to twenty feet, but several rapids occurred, down which the boats were hurried the Nammoy, and Gwydir or Kindur, are with great velocity. The channel, after beautiful mountain streams which rise in the this, contracted, and became blocked up with large trees, which, with an increasing current, rendered the navigation perplexing and dangerous The trees were so numerous, that the passage could hardly be piece of water, and is thus mentioned by Sir effected. The voyagers were carried, at a fearful rate, amongst these trees by a tor tuous current, till they were hurried into a a river as wide as the Thames at Putney, on broad and noble river—this was the Murray The breadth of the Murrumbidgee, at the junction of the two streams, is only fifty feet Sir Thomas Mitchell describes the Mur

rumbidgee as "an important river," and speaks of its full stream, its water-worn and lightly timbered banks, and the firm and This breadth and magnitude did not howaccessible nature of its gullies, as quite the ever continue; a rocky dyke traversed the reverse of the interior rivers in general river, and occasioned a slight fall, after especially the Darling; and states that above which the Darling lost the imposing appear-

in 34° 21′ 34″ S. lat , 143° 56′ 27″ E. long ,) it was fifty yards wide, with banks eleven feet high; while the noble Murray (whose description forms a portion of the topography of South Australia, its embouche being in hat province) below the junction was a maginficent stream 165 feet broad, with banks twenty-five feet high. The Sydney Herald, owing remarks concerning the two rivers learly not navigable; the Murrumbidgee. nearly up to the mountains, is, but there are considerable dangers from snags, and occasional rapids and shoals. But, perhaps, vessels purposely constructed of small draught, and carefully manned, might be employed, except in seasons of extreme drought. And In January, 1830, captain Sturt if so, this river alone, offers full 400 miles of embarked in his boats, about fifteen miles tortuous navigation, extending through at above the junction with the Lachlan. He least 300 miles of direct distance." Much of the land traversed by the Murrumbidgee is of excellent quality, and adapted for the support of civilized man; its spontaneous productions long formed the chief food of its native inhabitants, and notwithstanding the great floods to which this river is subject, and the serious injury thereby inflicted on the commencing townships laid out on its banks, the locality is a favourite one, and is being rapidly occupied, especially by squatters

Darling River, whose basin receives so New South Wales, is unfortunately not navigable for commercial purposes. tributaries, the Karaula or Dumaresq, hilly country behind Moreton Bay, in 27° S. lat, 152° E. long. Above the junction of the Gwydir, which is in 29° 30′ 27″ S. lat., 148° 13 20″ E long., the Darling is a noble T. L. Mitchell, in February, 1832 —"I now overlooked, from a bank seventy feet high, which the goodly waters, perfectly free from fallen timber, danced in full liberty; a singular-looking diving bird, carrying only its head above water, gave a novel appearance to this copious reservoir, and there was a rich alluvial flat on the opposite bank."

dead trees encumber the channel. seven feet.

junction of the Gwydir. In its channel all Thomas Mitchell, "having received the Conadilly from the left bank, had here an important appearance; the breadth of the water was 100 feet, its mean depth nearly eleven the Nammoy; and below this, on the same side, the attenuated channel of the Macquarie, which was found in 1846 (a season of extreme drought) to be continuous in muddy ponds throughout the marshes, unites with that of the Darling (see p. 391).

Macquarie River is formed by the junction of the Fish and Campbell rivers, which issue from the Blue Mountains, and unite at the point of division between the counties of Bathurst, Westmoreland, and Roxburgh. The Macquarie takes a winding course through the plains to the north-west; in some places it is deep, broad, and navigable for large boats; in others rapid and obstructed by falls. In about 32° 30' S. lat. it is still from twenty to sixty yards wide, and twenty feet deep, with a current of about a mile and-a-half an hour. The low land in which this river was lost by Oxley, has been already described (pp. 382-391). Ac-170 miles west of Newcastle; another, named pure to the taste; but more to the south-

ance it had worn for a brief period, and the Cudgugeeng, is distant about fifty miles though soon joined by the meandering from Bathurst. Below the junction of the Gwydir, did not resume it. The steep banks Macquarie with the Darling, and on its of this latter stream are hned by eucalypti opposite bank, the Culgoa joins the latter (blue gum trees) of enormous size, in whose river. The Culgoa is a branch of the thick foliage white cockatoos abound; many Balonne (p. 392), and is chiefly characterized The by the luxuriant grass on its banks, the average breadth of the water (in 1832) was mimosa near the bed of the current, and forty-five yards; the breadth from bank to much sand. The Balonne, with which we bank, seventy-five yards; the perpendicular are newly and imperfectly acquainted, is height of these banks above the water, twenty- divided by the Culgoa into Upper and Lower. According to Sir Thomas Mitchell, The Nammoy joins the Darling below the the Upper Balonne, with majestic trees, and banks grassed to the water's edge, has some the waters of the Peel, Mulnerandie, and noble reaches, one of which, in 28° 13′ 34" Conadilly unite. "This stream," says Sir S. lat., contains a large body of permanent water. Several spacious lagoons are supplied by floods in the Balonne. One of these, named by Mitchell, Lake Parachute, is described by him as an "immense sheet of feet nine inches, and the height of the banks water, with islands in it; and ducks, peliabove the water, thirty-seven feet" The cans, &c in abundance." In 27° 56′ 12" S. course of the Mulnerindie, from the junction lat., little water was found in the bed of the of the Peel to that of the Conadilly, is some- river, but long islands of sand, and waterwhat to the southward of west. Below the worn banks, with sloping grassy bergs behind; junction of the Conadilly, the well-known for the next few miles, in a north-westerly native name is the Nammoy, which pursues direction, the scenery was wild and grand; a south-west course The Castlereagh, known masses of rock, lofty trees, shining sands, to the natives as the Barron, joins the Dar- and patches of water, indiscriminately ling about fifty miles beyond the junction of mingled, afforded evidence of the powerful current that sometimes moved there and overwhelmed all. The Condamine is one of the principal heads of the Balonne. Mitchell, in relating his expedition of 1846, says, "I did not ascertain satisfactorily the point of junction of the Condamine with the Balonne, as what I saw in 148° 55' E long, 27° 47' 57" S lat., might have been only an ana-branch The chief source of the Condamine is a stream which rises in the dividing range, about ten miles south of Cunningham Gap; after an irregular course, during which (we learn from the Hon. W. Wrottesley) it is joined by several tributaries—the principal one from Herries' Range-it empties itself into a lagoon having no apparent outlet, and which hes in a direct distance of about sixty miles from its head He states that "as far as he knows the river, it is a chain of ponds and reaches, through which there is a perceptible current; the ponds are separated cording to Mitchell, the surplus waters of from each other by necks of land ranging the Macquarie are conveyed to the Darling from a few yards to miles in length, and by Duck Creek, a channel altogether to the beneath which the water forces its way. westward of these marshes. The River Bell The reaches are generally deep, with high or Molong is one of the tributaries of the reeds fringing the edges of their banks. Macquarie, near Wellington Valley, about The waters of the Condamine are clear and ward the western rivers are often brackish. that of the Macquarie and the Balonne, is In 1841, the Messrs. Russell set out on an to a greater or less extent remarkable in the exploratory expedition, determined if possible to trace the reappearance of the Condamine, after losing itself in the lagoon, being persuaded that as the latter had no visible outlet for the waters it received, they must escape by some subterraneous channel. and might somewhere be found to reappear upon the surface; having therefore followed the lagoon, which is seven miles in length, to its furthest extremity, they shaped their course from thence in a direction, as nearly as they could judge, the same as the river had held before it fell into the lagoon. At the end of one day's journey they came upon a small gully, which widened untill it broke into a deep, rocky river-bed, on both banks of which was a fine, open grazing country; "This river," says Mr. Russell, "is a very fine one for this country, its direction is first north-west and then more northerly, of course not running except in floods, but having beautiful long reaches, with deep of the Minor Balonne, (see pp. 391, 392,) terminates in a swamp. The banks of the Narran are distinguished by a belt of the polygonum junceum, about 400 or 500 yards wide, growing between the immediate margin and the grassy plains. Here, as on the gunpowder when shaken out, but sweet and pleasant to the taste, possessing a nutty flavour; it is collected by the natives, and Sir T. L. Mitchell, made into a paste. speaking of this river, says-

"The Narran seems a wonderful provision of nature for the supply and retention of water in a dry and parched country. The division of the main river into others already mentioned is no less so-irrigating thus from one principal channel, extensive regions of rich earth beyond the Darling, while the surplus, or overflow, instead of passing, as in common cases to the sea, is received in the deep channel of the Narran, and thereby conducted to that extensive reservoir where, on rock or stiff clay, and under ever-verdant polygonum, it furnishes an inexhaustible supply for the support of animal life."

This tendency to form ana-branches (i.e. such as after separation unite) and a net-

majority of the rivers of New South Wales, whose courses it is consequently very difficult to understand without constant reference to the map, so closely connected are

they with one another.

Maranoa River joins the Upper Balonne; but of this stream, as also of the Cogoon. Amby, Belyando, and others discovered by the indefatigable Sir Thomas Mitchell, in 1846, and of the Dawson, Mackenzie, Suttor, Burdekin, Lynd, and others, discovered about the same time by his distinguished contemporary, Dr. Leichardt, mention has already been made in the section on internal exploration. We are so imperfectly acquainted with their courses, that it is not possible to give a clear description of them; and that on the west side being undulating for general observations or fragmentary dethough not hilly, that on the east, flat and tail but little space can now be spared. From Mitchell we learn that the bed and banks of the Maranoa are of uniform extent throughout; averaging in width about 100 feet; in height of banks, from thirty to fifty The course was straight; and it feet. water, and fine large lagoons branching out seemed as if a few dams might have sufficed of it. There is plenty of the best kind of to render it navigable, or at least to have timber; iron-bark, blood-wood, pine, swamp- retained a vast supply of water; for although oak, and stringy-bark." The Narran, a branch the bed was sandy, the bottom was rocky, and the banks consisted of stiff clay. These being covered with rich grass, and consisting of good soil, water alone was wanting to make the whole valuable. The Belyando, according to the same authority, maintains a peculiar character throughout its course, banks of the Darling, heaps of the red-stalked with great uniformity, even after receiving coral-like plant are found. The seed there-tributaries apparently larger than itself. All from is black and small, resembling fine these lapse into the same concatenated line of ponds; at one place spreading amidst brigalow scrub, at another forming one welldefined deep channel. For the formation of ponds and the retention of water, in so dry a climate, we see here something between the ordinary character of rivers, and artificial works, which man must construct when population spreads into these regions. The fallen timber of the brigalow decays very slowly, and is not hable to be burnt, like most other dead wood in open forests, because no grass grows among it. accumulations of dead logs become clogged with river rack and the deposit of floods; to which floods these heaps present obstructions, forcing the waters into new channels, and in their progress scooping out new work of streams, so strikingly pointed out by ponds, and completing the embankment of Sir Thomas in the present instance, and in dead logs; which thus form natural dams retain, however sluggish its course. Thus it was that, during a season of unusual drought, abundance of water was found in this river's course, across nearly three-and-a-half degrees of latitude. From the above observations, it is evident that the Belyando is a striking example of the general construction of Australian rivers, as noted at the commencement of this section.

To return to the Darling-after receiving the Culgoa it is joined by the Bogun, on the opposite bank. The chief sources of the Bogan arise in Hervey's range, and also in that much less elevated country situated between the Lachlan and the Macquarie. The lower part of this river was called "Allan's Water," by Oxley; and another portion received the name of "New Year's Creek," from Mr. Hume. Since then it has been surveyed by Mitchell, nearly from its sources to its junction with the Darling; and is considered, by him, as belonging to river. the basin of the Macquarie, although it never joins that river, but merely skirts the plains which may be supposed to form its original bed. Throughout its whole Bogan is close to low hills, while the right adjoins the plains of the Macquarie, until it finally takes a remarkable turn westward towards the Darling. A striking uniformity is manifested in this little river, no change being observable throughout its whole course in the character of its banks, or the breadth of its bed, neither are the ponds near its than those near its junction with the prinin its bed, and no reeds grow upon the banks, which are generally sloping and of naked earth, marked with lines of flood. current at four miles per hour, where its course is most westerly, (the average rate of often second banks; and, like the Darling, trees, with the shining white bark, which trees and bushes of a finer variety than those

and reservoirs, to hold, under the shade of on the Darling. Yet, in the grasses there is the brigalow trees, more water for a longer not the wonderful variety remarkable on the time than any single river-channel could banks of that river. "Of twenty-six different kinds," says Sir T. Mitchell, "gathered by me on the Darling, I found only four of the same sorts growing on the Bogan, and not more than four other varieties throughout the whole course. It appeared that where land was best and most abundant, the grass consisted of one or two kinds only; and, on the contrary, that where the surface was nearly bare, the greatest varieties of grasses appeared, as if all strug-gling for existence." It was hoped that the Bogan would afford the means of access to the Darling at all times, by insuring the traveller on its banks against the chief impediments to travelling in Australia, namely -the want of water in periods of drought, and the results of its superabundance during seasons of rain; for water, it was considered, would always be found in its channel, at least in ponds, while no floods could reach the rising grounds over the left bank of the This expectation of the constant supply of water retained in the Bogan has not been realized: for Sir Thomas Mitchell, in December 1845, was compelled to abandon his intended route by this river, course of 250 miles, the left bank of the from the scarcity of this first necessity of life. About twelve miles below the junction of the Bogan with the Darling, in 145° 52' 12" E long., 30° 7' 4" S. lat., a stockade or block-house was erected by Sir Thomas L. Mitchell, in 1835, on a spot which he named Fort Bourke, and describes as "surpassing anything he had expected to find on the Darling." It consisted of the highest ground source less numerous, or of less magnitude, rising gradually from the lower levels, by which the river is approached from the cipal stream. There are few or no pebbles Bogan, to an elevated and extensive plateau, overlooking a reach of the river, a mile anda-half in length, the hill being situated near a sharp turn at the lower end of the Mr. Dixon estimates the velocity of the reach. At this turn a small water-course enters, which surrounds Fort Bourke on all sides, save that of the river; it encloses the larger rivers of Australia being, accord- about 160 acres, containing abundance of ing to Mitchell, two miles an hour.) It has grass. The plateau consists of rich loam; and, when first visited, was thinly wooded. a belt of dwarf eucalypti, box, or rough Upon it were found various burying-places gum, encloses the more stately flooded gum- of the natives, who always choose the highest parts of that low country for the purpose of grow on the immediate bank of the river. interment.* On the 1st June, 1835, the It has extensive plains along the banks, the surveyor-general (Sir T. L. Mitchell), emsoil of which is not only much firmer, but barked in his whale-boats on the Darling at also clothed with grass, and fringed with Fort Bourke? and the following extracts . Mitchell's Expeditions into Australia.

from his journal show how little reasonable Over the whole of this extensive region hope can be entertained of ever rendering there grew but little grass, and few trees the Darling useful as a navigable river:— available for any useful purpose, except "We proceeded well enough some way down varieties of acada, a tree so peculiar to the river, but at length a shallow reach first these desert interior regions, and which occasioned much delay, and afterwards rocks there seemed to be nourished only by the so dammed up the channel, that it was neces- dews of night" And respecting this country. sary to unload and draw the boats over he adds, "We saw neither kangaroos nor them. Our progress was thus extremely emus, a sufficient proof of the barrenness of slow, notwithstanding the activity and exer- the adjacent country." The furthest point tions of the men, who were constantly in reached was near that now called Laidley's the water, although a bitter cold wind blew Ponds. Of this whole extent, Sir Thomas all day. By sunset we had got over a bad says elsewhere-" The average breadth of place, where there was a considerable fall, the river at the surface of the water, when when, on looking round the point, we found low, is about fifty yards, but oftener less that the bed of the river was full of rocks than this, and seldom more I cannot to the extent of nearly a mile" (Sir Tho- think that the velocity of the floods in the mas explains elsewhere, that what he here river ever exceeds one mile per hour, but terms rocks is but the ferruginous clay which that it is, in general, much less. At this fills the lowest part of the basin of this time the water actually flowing, as seen at river) "These unexpected impediments to one or two shallow places, did not exceed, in our progress down the river determined me to return to the depôt with the boats, and afterwards to explore its course on horseback" On June 4th, he tells us, "a rocky accord only too entirely with the unfavourdyke crossed the stream in a N N W. direc- able remarks above quoted. In October, tion. This must," he adds, "have been 1844, in his desert expedition (p 387), he another of the many impediments to our made the Darling about fifteen miles above boat navigation had we proceeded by water, and from the general appearance of the river, I was satisfied that a passage with boats could not have been attempted in its present state, with any prospect of getting soon down" On June 10th he reached Sturt's furthest, below which the river formed a cataract of about two feet. 17th June he found deep water; but, on the 19th, the river was so shallow that it seemed almost possible to step across it, and growing round them were either dead or no deep reaches appeared in its bod. This dying. During a single night the Darling was nearly 120 miles below Fort Bourke On 24th June, there was a fall of about into a foaming and impetuous stream, sweepfour feet. On 26th June, he forded the ing everything away on its turbid waters at Darling: 200 miles from Fort Bourke the the rate of three or four miles an hour, and river had the same character as about that in four days it overflowed its banks. On the locality - a slow current, and an equal return of the expedition homewards in the volume of water. of twenty-three miles, the channel became season, there had been no recurrence of the very contracted, and containing many dead flood of the previous year, but the Darling trees, had altogether a diminished appear- was at a still lower ebb than before, and such as to remind him of the deserts in long been exhausted and waterless Asia or Africa. hills being absorbed by the thirsty earth. closes on the river so as to separate the plains

quantity, that which would be necessary to turn a mill "

The more recent accounts of captain Sturt its junction with the Murray, and found it with scarcely any water in its bed. The river, says captain Sturt, must have been in the state in which we found it for a great length of time, and I am led to infer, from the very grassy nature of its bed, that it seldom contains water to any depth, or length On of time, since in such case the grass would be killed. Its flats are backed by lagoons, but they had long been dry, and the trees was converted, from an almost dry channel, Below this, on a ride following year, some two months later in the On the 8th July, the country was every lagoon and creek in its vicinity had On the 11th July, he water is described by Mitchell as being in says, "I had traced its course upwards of all parts as transparent as that of the purest 300 miles, through a country which did not spring well, entirely losing all brackish taste supply a single stream, all the torrents which below an extreme point of Dunlop's Range. might descend from the sharp and naked where a hill consisting of a very hard breccia above it from those lower down. The taste of the water was found to be worst where the river is nearest to D'Urban's Group-above that, at the junction of the Bogan, and for seventeen miles from thence downwards, it was excellent.

The Williorara, or Laidley's Ponds was supposed to be a mountain stream flowing in a south-westerly direction into the Darling. which it joins in about 142° 26' E. long. 32° 26' S. lat. By it captain Sturt hoped to penetrate the northern interior, but on examination it proved to be merely a channel of communication between two lakes that were on either side of it, called Minandichi and Cawndilla, to which it conveyed the surplus water of the Darling during the floods. It was about fifty yards broad, with low muddy banks, and its course of about nine or ten miles was exceedingly tortuous. but almost due west. Cawndilla lake is merely a shallow basin of considerable extent, filled by the river floods, and retaining them for a short time only. Immense quantities of fish, however, pass into these temporary reservoirs, and the floods are consequently looked for by the natives with anxious ex-Sir Thomas Mitchell when concluding his account of the Darling, in 1835, makes the following remarks, which illustrate some of the characteristics of this singular river too clearly to be omitted here, although in perusing them the reader must bear in mind that the river was visited by the surveyor-general during a favourable season, and therefore bore a very different aspect to that under which it has been seen by subsequent travellers :-

"From the sparkling transparency of this water, its undiminshed current sustained without receiving any tributary throughout a course of 660 miles, and especially from its being salt in some places and fresh at others, it seems probable that the current, when in that reduced state, is chiefly supported by springs It would appear that the saltness occurs when the springs also fail, and may be attributed to the same causes, whatever they are, by which all known waters unconnected with springs or streams are said to become salt. The bed of the river is at an average depth of about sixty feet below the common surface of the country. To this depth the soil generally consists of clay, in which calcareous concretions and selenites occur abundantly; at other parts the clay impregnated with iron forms a soft kind of rock in the bed, or banks of the river. There are no traces of water-courses on these level plans, such as might be expected to fall from the hills behind. The hills, nevertheless, contain some hollows and gullies which must, in wet seasons, conduct water to the plans; the distance of such heights from the river being seldom less than twelve miles, and it would appear

nature, and so extensive, that any torrents from the higher country are imbibed by the soft earth, for the hollow parts are seared with deep broad cracks, which in wet seasons must take up and retain much water, until it is either evaporated, or sinks to lower levels. The water may thus be absorbed and retained for a considerable time, and escape by slow drainage into the river, especially where the lower parts of such plains are shut in by hills approaching the channel. Thus, where the extremity of Dunlop's range shot forward into the wide level margin, we found that the water had lost all taste of salt, a circumstance most easily accounted for, by supposing that springs being more abundant there, from the near vicinity of the hills, had diluted the water which we had found salt higher up.
"The marks of high floods were apparent on the

surface, to a distance frequently of as much as two miles from the ordinary channel. Within such a space the waters appear to overflow, and then to lodge in hollows (covered with polygonum junceum), and which were then full of yawning cracks. Such parts of the surface would naturally become first saturated in times of flood, and be the last to part with moisture in seasons of drought. I observed that there was less of that kind of low ground where the water was saltest, which was to the westward of

D'Urban's group.

"The basin of the Darling, which may be considered to extend to the coast ranges on the east. appears to be very limited on the opposite or western side, a desert country from which it did not receive, as far as I could discover, a single tributary of any importance. A succession of low ridges seemed there to mark the extent of its basin, nor did I perceive in the country beyond, any ranges of a more decidedly fluviatile character.

"Some of the hollows behind the immediate banks on both sides contained lagoons, in some of these, reeds had at length taken the place of water; in others, the first coating of vegetation which the alluvium receives on exposure to the sun, consisted of fragrant herbs, and amongst them we found the scented trefoil (trigonella suavissima), which proved an excellent anti-scorbutic vegetable when boiled The surface of the earth near the river is unlike any part of the earth's face that I have elsewhere seen It is as clear of vegetation as a fallow-field, but with greater inequality of surface, and full of holes. The soil is just tenacious enough to open into cracks, for the surface becomes so soft and loose that the few weeds that may have sprung up previous to desiccation seldom remain where they grow, being blown out by the slightest wind. Over such ground it was fatiguing labour to walk, the foot at each step sinking in to the ancle, and care being necessary to avoid holes always ready to receive the whole leg, or sometimes a man's whole body. The labour which this kind of ground cost the poor bullocks, drawing heavy carts, reduced them to such a state of weakness, that six-never returned from the Dar-ling." "Of the hills in general it may be observed, that those on the left bank are most elevated at the higher parts of the river, whereas those on the right bank rise into greatest height towards the lower parts of the river, as far as explored by us. The plains extend on each side of the channel to a distance of six or seven miles, and are in general clear of timber. That deep and extensive bed of clay, so uniformly filling the basin of this river, has every that the intervening country is of such an absorbent appearance of mud deposited. Behind them the

country is sparingly wooded, except by the stunted | gins, who indeed manage the whole process of netbush (myoporum montanum), which forms a thick scrub, especially on the side of the low hills. On the river bank, trees peculiar to it grow to so large a size, that its course may be easily distinguished at great distances, and thus these facilitated our survey in a very great degree. These gigantic trees consist of that species of eucalyptus called blue gum in the colony. Its searching roots seem to luxurate in the banks of streams, lakes, or ponds, where it is so constant to moisture, that the thirsty traveller soon learns to recognise its shining trunk and white gnarled arms, as the surest guides to water The alluvial portion of the margin of the Darling is narrow, and in most places overgrown with the dwarf box, which is another species of eucalyptus. In this alluvial part there are hollow places as already observed, covered with the polygonum junceum, which is an unsightly leafless bush or bramble. Grass is only to be found on the banks of the river, for, strictly speaking, the margin only can be considered alluvial, for this being irrigated and enriched by the floods, is everywhere productive of grass, which grows there abundantly, even where none appears in the back

"In the back-ground beyond the plains, some casuaring and eucalypti are occasionally seen in the scrubs which grow on the red sand, and an acacia (having a white stem, the bark being much spotted) there grows to a considerable size, and produces much gum Indeed, gum acacia abounds in these scrubs, and when the country is more accessible, may

become an article of commerce.

"The plants, though in general different from those nearer the colony, were few, but curious Of grasses I gathered seeds of twenty-five different kinds, six of these growing only on the alluvial bank of the Darling Among these were a poa, and the chloris truncata, and stipa setacea of Mr Brown The coun-The country was, nevertheless, almost bare, and the roots, stems, and seeds, the products of a former season, were blown about on the soft face of the parched and naked earth, where the last spring seemed indeed to have produced no vegetation, excepting a thin crop

of an umbelliferous weed

"The natives of the Darling live chiefly on the fish of the river, and are expert swimmers and divers They can swim and turn with great velocity under water, where they can both see and spear the largest fish, sometimes remaining under water for this purpose a considerable time. In very cold weather, however, they float on the surface in pieces of bark, and thus also they can spear the fish, having a small fire beside them in their bark cance They also feed on birds, and especially on ducks, which they ensuare with nets, with which a tribe is always provided These nets are very well made, much resembling our own, and of a similar material, the wild flax, which grows near the river in tufts, and thus very convenient to pull These are easily gathered by the

*When writing of the expedition conducted by this brave but unfortunate gentleman (p. 395), I mentioned that he was supposed to have perished in an encounter with the natives. He was sent to survey the country lying between Rockingham Bay and Cape York, but the stock of provisions being well nigh exhausted, Mr. Kennedy divided his party, and proceeded towards Cape York, in the hope of procuring the supplies which had been forwarded from Sydney by water Of the nine men left behind, seven perished of ague, produced by over-

making They give each tuft (after gathering it) a twist, also biting it a little, and in that state their flax is laid about on the roofs of their huts until dry. Fishing-nets are made of various similar materials, being often very large, and attached to some I have seen half-inch cordage, which might have been mistaken for the production of a rope-walk largest of their nets are those set across the Darling for the purpose of catching the ducks as they fly along the river in considerable flocks. These nets are strong, with wide meshes, and they are hung up on a lofty pole erected for the purpose on one side, usually opposite to some large tree on the other, being easily suspended upon these supports, as occasion requires; such poles are permanently fixed, supported by substantial props, and it was doubtless one of this description that captain Sturt supposed to have been erected to propitiate some

"The native knows well 'the alleys green' through which at twilight the thirsty pigeons and parrots rush towards the water, and there with a smaller net hung up, he sits down and makes a fire ready to roast the

birds which may fall into his snare.'

The ana-branch, or ancient channel of the Darling, is described by Eyre, who discovered it, as running through the scrub half-way between Lake Victoria and the main stream, with a course of fully sixty miles, nearly parallel to the latter singular watercourse forms, in times of flood, another connecting channel between the Darling and the Murray, leaving an immense desert island of low or scrubby lands between it and the Darling times it has a strong current running upwards, caused by the back-waters of the According to captain Sturt, it has a broad channel and long reaches, but is wholly wanting in pasture, or timber of The plains of the interior formed anv size the banks, and nothing but salsolacæ grew No water, he says, ever flows down the ana-branch into the north.

Victoria River, the Warrego, and other streams discovered in 1846, by Sir Thomas Mitchell, and subsequently visited by his able assistant, Mr Kennedy,* have been already referred to (pp 393, 394); nor is there, as far as I am aware, sufficient information possessed concerning these streams to furnish a more detailed description.

fatigue and food both insufficient and unwholesome, for they were compelled to eat the flesh of the wretched horses dried in the sun; and the last survivors (one of whom was Mr Carron, attached as botanist to the expedition), were too weak to bury their deceased comrades The fate of those who accompanied Mr Kennedy was equally melancholy; one of them, named Costigan, accidentally shot himself, and Mr. Kennedy leaving him in the care of two others, pursued his way, in the hope of obtaining speedy succour accompanied only by his faithful

to the "Blue Book" of 1846, contains twentytwo counties, whose area, population, number of acres under cultivation, and produce, will be given in a subsequent chapter. this number several others have been, or are on the point of being, added. These divisions are so little dwelt upon, and indeed so rarely alluded to, by the writers on the topography of New South Wales (Mitchell alone excepted), that I have found it difficult, after a careful examination of the writings of Oxley, Lang, Braim, and others, of the excellent local journals, and of the colonial and geographical magazines published in England, assisted by the information acquired by personal observation, to furnish anything approaching a clear or detailed description of the counties. Dr. Lang, in his valuable work on New South Wales, remarks, "that, except in government deeds or legal documents, the grand natural divisions of the country are the only ones known

attendant, an aboriginal named Jackey Jackey, through a country swarming with hostile natives vages, according to Jackey's statement, came stealthily behind, and hiding in the scrub, threw large jagged wooden spears at them, by which both they and the horses were wounded Kennedy fell to rise no more, his last injunction to his weeping follower being, to endeavour to preserve his papers and to convey them to the governor The poor boy, following the directions of his unhappy master, succeeded in reaching Port Albany, and informing the captain of the schooner lying there with supplies, of the sad results of the expedition Captain Dobson hastened to Shelburne Bay, but arrived there, as before stated, in time to save two only of the ill-fated band Jackey Jackey's account of the death of poor Kennedy is so simple and pathetic, that I cannot resist quoting it here

"I asked him, 'Mr Kennedy, are you going to leave me, and he said, Yes my boy, I am going to leave you, he said, I am very bad, Jackey, you take the books, Jackey, to the captain, but not the big ones, the governor will give anything for them' I then tied up the papers, he then said, 'Jackey, rive me paper, and I will write' I gave him paper and pencil, and he tried to write; and he then fell back and died, and I caught him as he fell back and held him, and I then turned round myself and cried, I was crying a good while, until I got well, that was about an hour, and then I buried him; I digged up the ground with a tomahawk, and covered him over with logs, then grass, and my shirt and trousers; that night I left him near dark. I would go through the scrub, and the blacks threw spears at me, a good many, and I went back again into the scrub; then I went down the creek which runs into Escape River, and I walked along the water in the creek very easy, with my head only above water, to avoid the blacks and get out of their way; in this way I went halfa-mile; then I got out of the creek and got clear of them, and walked on all night nearly, and slept in the bush without a fire I went on next morning,

Counties.-New South Wales, according or recognised by the colonists, who accordingly speak only of the districts of the Hawkesbury, of Hunter's River, of Bathurst, of Illawarra, of Argyle, and of Port Macquarie. For the colonial readers, therefore, of the present day, who have not yet arrived at the feeling of countyship (if it may be so termed) manifested in the mother country, a separate delineation of the counties may not be necessary; but the want of it would, I think, be felt by readers in the United Kingdom; and it is to them more especially that I would fain render familiar the state of this and every other British colony, sure that (under Providence) much benefit would thereby result. The following is a brief account of the oldest established coun-The first in point of settlement-

> Cumberland county, has a coast line, stretching southward, of about fifty-six miles, and an extreme breadth, from the sea to the base of the Blue Mountains, of forty-six

> and felt very bad, and I spelled for two days: I lived upon nothing but salt-water Next day I went on and camped one mile away from where I left, and ate one of the pandanos, on next morning I went on two miles, and sat down there, and I wanted to spell a little there, and go on, but when I tried to get up, I could not, but fell down again bery tired and cramped, and I spelled here two days; then I went on again one mile, and got nothing to eat but one nondo, and I went on that day and camped, and on again next morning, about half a mile, and sat down where there was good water, and remained all day. On the following morning I went a good way, went round a great swamp and mangroves, and got a good way by sundown. The next morning I went and saw a very large track of black fellows I went clear of the track and of swamp or sandy ground; then I came to a very large river and a large lagoon; plenty of alligators in the lagoon, about ten miles from Port Albany I now got into the ridges by sundown, and went up a tree and saw Albany Island Then next morning at four o'clock, I went on as hard as I could go, all the way down, over fine clear ground, fine iron bark timber and plenty of good grass, I went on round the point (this was towards Cape York, north of Albany Island) and went on and followed a creek down, and went on top of the hill and I saw Cape York; I knew it was Cape York. because the sand did not go on farther; I sat down then a good while; I said to myself, this is Port Albany, I believe inside, somewhere. Mr. Kennedy always told me that the ship was inside, close up to the main land; I went on a little way and saw the ship and boat. I met close up here two black gins and a good many piccaninies, one said to me, 'powad, powad, then I asked her for eggs—she gave me turtles' eggs, and I gave her a burning-glass; she pointed at the ship, which I had seen before; I was very frightened of seeing the black men all along here, and when I was on the rock, cooeying, and murry murry (very, very) glad when the boat came to me."

The Hawkesbury and Nepean rivers form seven-eighths of the inland boundary of this county, which, notwithstanding its inferiority in size and the general character of its soil, is the most important and the most densely populated of them all, Sydney, the capital of the colony, being situated in it, and also the towns of Paramatta, Liverpool, Windsor, Richmond, and Campbell-town.

The maritime boundary is generally bold and deeply indented. For the distance of five or six miles from the sea, the country wears a bleak and barren aspect, consisting of ridges of stratified sandstone, the soil poor, in some places swampy, and clothed from the southward, appears low, compared with a few stunted eucalypti and dwarf un-

derwood.

Beyond this coast-girdle the aspect begins to improve; an undulating country extends for ten miles; and where the hand of civil- famed Dover cliffs of Albion, ization has not been in active operation, a stately forest of eucalypti, varied with a this sea-wall, against which the vast volume species of casaurina, appears, diversified here of water in the Southern Pacific is rolled and there with farms and tenements, and with incessant swell, but the moment the intersected by broad and excellent turnpike tempest-tossed mariner has fairly passed roads, but the soil in this belt is still poor through this singular cleft or fissure, the on the surface, as it rests on a sandstone waters are as tranquil as a mill-pond. On formation. At the distance of twenty to the south head of the entrance of Port twenty-five miles, the forest is lofty, but not Jackson an excellent lighthouse was creeted dense; there is little or no underwood, and by governor Macquarie, which captain Stokes the average number of trees to the acre does says he saw, in H.M.S Beagle, at a distance not exceed fifty, while a charming variety of thirty miles, from a height of fifty feet, of hill and dale, clothed with luxuriant during the period of a clear atmosphere. herbage, is covered with bleating flocks and lowing herds, among which may be seen at intervals, the spacious mansion or snug farm-house of civilized man. Throughout the whole of the county, from the sea-coast to the base of the Blue Mountains, the land can scarcely be considered elevated, but is a continued series of undulations, until it approaches the Nepean and Hawkesbury rivers, which are bordered by extensive plains of extraordinary fertility. Formerly one immense tract of forest land, covered with very heavy timber, extended with little interruption from below Windsor to Appin a distance of fifty miles; of which a large portion is now cleared and under cultiva tion. The rocks in this tract are either

* Account of New South Wales, by James Atkin

ommon or calcareous sandstone, ironstone. .nd in some few places whinstone: these orm soils of various degrees of goodness, he whinstone generally the best. In some laces small pebbles of ironstone, not larger han peas, may be found scattered over the surface. This, wherever it occurs, is a sure ign of a poor hungry soil.*

Prospect Hill, the most conspicuous eminence in Cumberland, is situated near the centre of that county. It is cultivated nearly to the summit, and the rich red soil on the trap rock is remarkably productive.

The land, on approaching Port Jackson with the coast of the Illawarra district the cliffs near Port Jackson are about 200 feet n height; and in general effect and outline, though darker coloured, not unlike the far-

Suddenly an abrupt breach is seen in

The capital of New South Wales, named in honour of Viscount Sydney, his Majesty's secretary of state for the colonies in 1788, is situated in 35° 52′ S lat, 151° 17′ E long. For nearly a quarter of a century after its original establishment on the shores of Sydney Cove (Port Jackson), the now important city was little more than an insignificant village of bark huts and wooden skillings, scattered here and there among fields and gardens. Soon after the arrival of governor Macquarie, a survey was made of the whole locality, and the future town marked out on a regular plan.

Sydney is built partly on a small promontory, and partly in a narrow ravine or valley.

near which there is a light, bears from the inner S

head S. W. by W. half a mile.

son, Esq. † The lighthouse is in 33° 51′ 40″ S. lat., 151° 16′ 50 E. long.; the tower is admirably built; the height o the light (a revolving one) from the base being 7 feet, and above the sea 277 feet,-total 353 inner S. head bears from the lighthouse N by W † W. distant a mile and a quarter The outer N. head bears from it N. by E. two miles. The inner S. and

outer N. heads he NE 1/2 E. and SW. 1, of each The light can be other distant a mile and one-tenth seen from S by E to N. by E, and from a ship's deck, on a clear night, eight to ten leagues, appearing hike a luminous star. Bearings magnetic, distances nautical—variations 9 degrees E

NB—The N end of the "Sow and Pigs" rocks,

The formation on which it stands is a free- have each a carriage-way of not less than from the Middle Harbour, until they termiprise the southern suburbs.*

capital are bold, varied, and many of them very picturesque; the magnificent harbour of Port Jackson, like a lake studded with islets, indented with coves of singular beauty, whose trangual recesses afford a secure haven to hundreds of vessels, is ever an attractive and dale, of rock and woodland, of grassy slopes and brilliant parterres, interspersed with princely mansions, cottage ornées, and

many charming prospects.

demesne contiguous to government house, close alongside the wharfs, and their cargoes been between £50,000 and £60,000.

· By an act for regulating the police in the town and port of Sydney, and for removing and preventing nuisances and obstructions therein, which came into operation 30th September, 1833, the boundaries of the town of Sydney, port of Sydney, Sydney Cove,

and Darling Harbour, were thus fixed .—

Town of Sydney.—Bounded on the north by the waters of Port Jackson, from a land-mark at the head of Blackwattle Bay to Rushcutter's Bay; on the east by the stream entering Rushcutter's Bay, to a bridge on the South Head Road, at the north-west corner of Sydney Common; and by the western boundary of that common to a road extending westward to the back of Cleveland House; on the south by that road and its western fence, prolonged to a land-mark on the road to Cook's River; on the west by the western side of the road to Cook's River, and

stone rock, which passes inland for about thirty-six feet, (several have from forty to two miles, in undulating and nearly parallel sixty feet), and a foot-way of not less than ridges, in a direction almost due south of twelve feet. Their length varies from one that portion of Port Jackson generally known to three miles; they are well paved or macas the Stream, or Middle Harbour, which, adamized, regularly cleaned, watered, and with Sydney Cove and Darling Harbour, lit with gas. George-street and Pitt-street encloses greater part of the city on three have continuous ranges of handsome cut The ridges decline as they recede stone or brick edifices, with shops that would do no discredit to Regent or Oxford-street. nate in an almost level plam, bounded on London. Indeed, the modern structures the south by a transverse range of elevated generally, may, in several respects, fairly rock, known as the Surry hills, which com- vie with those of an European capital; and many of the older houses, though con-The views from the higher part of the structed with little pretensions to taste, were vet (owing to the abundance of good brick earth, and excellent building stone, so easily obtainable,) strongly and usefully built; and, with their neat gardens in front, present a

The recently-erected government-house, object; while inland, the diversity of hill which stands in a conspicuous position, overlooking Sydney Cove, is a very handsome structure, built of white freestone, in the Elizabethean style of architecture. substantial homesteads, combine in forming foundations are laid in the solid rock, out of which the basement and cellars are quarmed: The position of Sydney admirably adapts and the whole tower, at the north end, it for the centre of a commercial empire. seventy feet high, and twenty feet square, Its haven, which is about fifteen miles long, with a flag-staff, thirty feet high, forms a and, in some places, three miles broad, is striking feature from the harbour, of which completely land-locked. Along the water- the house commands a fine view. The side, except that portion occupied by the building is 170 feet long, and 40½ high; the ball-room, 50 feet by 28 feet; drawingthere are wharfs, stores, ship-yards, mills, room, 40 by 28; ante-room, 15 by 28; various manufactories, distilleries, steam dining-room, 45 by 26. All the rooms are engines, breweries, &c.; behind these, in 26 feet high, and finished in superb style; irregular succession, rise the numerous pub- the staircases are of carved cedar, and the lic and private buildings of the Australian chimney-pieces of fine colonial marble. metropolis. In several parts, ships come The cost to the colonists has, I believe, are hoisted direct from the hold into the contrast is very great between this princely warehouses. The streets are laid out gene- mansion and the canvass house of the first rally at right angles; thirty-four of them governor of New South Wales, or with the that line prolonged to the land mark at the head of

the Blackwattle Bay
Port of Sydney.—The channel extending westward from the heads of Port Jackson to Long Nose Point, including Sydney Cove, Darling Harbour, and extending one mile up Middle Harbour, and the various other bays or inlets on each shore thereof.

Sydney Cove—The waters included within a line extending from Dawes' Point to the north-west bastion of Fort Macquarie, and the shores to the

cheerful appearance.

southward of this line.

Darling Harbour — The waters included within a line extending from Dawes' Point to the south-east point of the shore nearest to and opposite to Goat Island; the shores of this harbour on the side of the town, and those opposite to them.

wretched wooden tenements in use for

several years.

There are numerous temples dedicated to the worship of God; among which are, five large and commodious Episcopalian churches. besides a missionary Congregational church; three Presbyterian churches; two Roman catholic-St. Mary's cathedral and St. Patrick's church, both spaceous edifices, highly ornamented; five or six Wesleyan chapels; a Baptist chapel; one Australian Methodist tower which commands an extensive proschapel; a Friends' meeting-house; and a pect.*

Jewish synagogue.

as the Episcopal church of Australia, on the creation of a diocese in communion with the church of England; the foundation stone was laid in May, 1839, under the auspices of the first bishop of Australia. This handsome edifice is 720 feet from east to west, including the tower, whose pinnacles have an elevation of 120 feet. The height of the body of the church is seventy feet It will contain a congregation of about 2,000. expense of its erection is estimated at £50,000, towards which the inhabitants contributed largely; one family alone, that of Robert Campbell, M.C., subscribed £500.

The Roman Catholic Cathedral is the largest and most expensive sacred edifice in the colony; it was commenced in 1820, and it is not yet completely finished. Built of freestone, in the form of a cross, it is an excellent specimen of Gothic architecture, and being situated in a commanding position in Hyde-park, is now an ornament to

the city.

St. Phillip's Church has a peculiar interest attached to it, as being the oldest place of worship in the colony. Commenced in July, 1793, it was several years before it was fitted for the celebration of divine service. George the Third regarded its erection with deep

* The deep interest taken by the " good old king" in the establishment of the first Christian church erected at the antipodes, where there are now five Protestant dioceses, viz., Australia (Sydney), erected in 1836; New Zealand, 1841; Tasmania (Van Diemen's Land), 1842; Melbourne (Port Phillip), 1847, and Newcastle (New South Wales), 1847—was in unison with his well-known piety of character; a piety in the exercise of which he continued to manifest the reasoning power, in other respects entirely dethroned. During the awful lunacy with which the mind of George the Third was afflicted, his spirit remained unclouded in its devotion, and during his wonted hours of prayer, his Majesty's supplications were daily uttered to the Almighty disposer of events—that the Lord of Heaven and Earth would bestow especial care and favour on the nation, deprived by His will of the superintendence of their lawful sove-

interest; and not content with expressing his satisfaction that such a building was in progress, his Majesty forwarded to the colony (from his private purse) a costly communion service of plate, which arrived safely in October, 1803, and is still used in this church. The earnest solicitude evinced by the king expedited the building, which was consecrated on Christmas Day, 1810. It is a plain, useful structure, with a round

Andrew's Kirk, a handsome Gothic St. Andrew's Cathedral was constructed church, was commenced in November, 1833, and finished in September, 1835. The walls are elevated, and include a spacious area, there being a projecting entrance in front, leading to the gallery. Between the main windows there are square buttresses, and two circular turrets surmounted by pointed spires. The interior is admirably fitted up: the grouned arches of the ceiling rest upon six fluted columns with ornamented capitals; the cedar pannels and Gothic framing are particularly handsome. The government gave the site for the building, but the cost of the kirk was chiefly defrayed by subscriptions from members of the established church of Scotland.

> St. James' Church occupies a commanding site at the north end of Hyde Park. The foundation was laid in October, 1819, by governor Macquarie, and it was completed about the end of 1822 It is in the Grecian style of architecture, with a lofty spire and belfry, and is constructed of bricks, strengthened by large and handsome plasters of free-There is a superior organ at the end of the church, and the pulpit is of excellent workmanship.

> The Scots' Kirk is a substantial plain building, and the other temples of worship are well constructed. As population in-

> reign, and that He would be to the people of these realms their temporal as well as spiritual King, directing aright the counsels of those to whom the supreme power was delegated. The transmission of a communion service to St Phillip's church at Sydney, is in perfect accordance with the deep reverence of his Majesty for that holy and indispensible ordinance It is not generally known that some time before the demise of George the Third, his Majesty expressed an earnest desire to receive the Sacrament. The clergy and the medical attendants on his Majesty did not think it advisable to grant the request, whereupon the king solemnly administered the bread and wine to himself, with a fervent prayer that if in this he committed the sin of presumption, he might be forgiven-no other means being left for his obedience to the divine command, or the satisfaction of his deep vearning for the comfort of the Holy Sacrament

and Sydney is, on the whole, better pro- are well attended. vided with the means of enjoying public where, it will be remembered, there was recently one parish with 20,000 inhabitants, and only one church.

The Sydney College owes its existence chiefly to a private individual, Dr. Bland, who was originally a surgeon in the royal navy, but was transported along with a heutenant of the ship in which he served, for being engaged in a fatal duel with another officer of the ship. Dr. Bland has long been known as the good Samaritan of Australia; possessed of great skill in his profession, of high general attainments, a gentleman by birth, education, and feeling, he acquired the esteem of general and lady Darling, and of all classes in the colony. Wealth was poured freely into his hands by the affluent, and its recipient as quickly passed it away to the poor; not satisfied merely with contributing both by his skill and pecuniary charity, to alleviate the physical suf- have communications for escape." fering of his fellow-creatures, Dr. Bland took the lead in the formation of a gram- Levy. New Testament are read without note or and plain. tural philosophy, good.

December, 1831; it combines a series of spacious Hospitals. class.

education alone, and many excellent semi-feet in length, floored with freestone, the roofs

creases, new churches and chapels are built, naries for both sexes. The sunday schools

Among the other public structures in Sydworship, than many districts of London-ney, is the Theatre Royal, which cost £10,000 in building; the colonists truly aver, that it "would be an ornament to the Great Baby-lon." The architectural description given of it, is as follows:-

> "In front of the theatre there are two splendid shops, between which there is a spacious entrance to the lower and upper boxes, enclosed by a pair of massive iron gates. The saloon leading to the two tiers of boxes, is divided for an entrance for each portion of the visitors. The interior of the house is arranged into two circles of boxes, with several private and family boxes; an extensive pit, with raised seats, and a spacious gallery. To the lower circle of boxes is attached an elegant dress saloon, 40 feet by 20 The size of the theatre is 100 feet by 53; the stage, 52 feet by 47; the opening of the proscenium, 8 feet; distance from front to front of the boxes, 27 feet; also, a commodious orchestra,

> up in the modern styl delier in the centre of the roof, and the building is so arranged, that in case of fire, all parts of the house

The theatre was erected by Mr. Barnett In the early days of the colony, mar-school in 1825; in 1828-9 the worthy the "legitimate drama" was performed in doctor made a successful effort to enlarge the gaol of Sydney. The public Banks are and improve the institution; in 1830 the all substantial, and, in some instances, ornagrammar-school expanded into Sydney Col-mented buildings; the Head Police Office, lege, with a fund of £10,000, subscribed in Benevolent Asylum, Prisoners' Barracks, 200 shares of £50, each share entitling the Post Office, deserve a record for their suitholder in perpetuity to the nomination of ableness to the purposes for which they were one student at the college. The Old and constructed. The Soldiers' Barracks are large Indeed, the number of good comment; no religious book is used without mechanics among the convicts, and the vigithe authority of the president, and a com- lant superintendence of engineer officers, mittee of fifteen members, elected annually have materially contributed to secure for by the aggregate body of trustees. The Sydney a very superior order of public building is commodious, and the course of edifices. A handsome range of stone buildeducation in classics, mathematics, and na- ings, with a noble colonnade forming a verandah and balcony, contains the Legislative The Australian College was instituted 31st and Executive Council Chambers, and two The Court House is schools for the education of youth in the built on an eminence in that portion of the elementary branches of education, and gra- suburbs termed the Surry hills, and adjoindually extends to the higher course of in- ing it is the New Gaol, an excellent building struction. The buildings are in chaste style, well arranged for the classification and sepalarge, and capable of containing more than ration of prisoners. The gaol covers a con-100 boarders; like the Sydney College, it siderable area of ground, it is erected on a is not confined to any particular religious hill, built of freestone, and surrounded by a denomination. A chapter in the Bible is massive wall thirty feet high. The Custom read by each teacher every morning in the House and the Public Library are designed presence of all the pupils attending his upon an equally extensive and substantial scale. The Public Markets are held in a There is a Normal institution for secular double range of narrow buildings about 200 tends to preserve cleanliness; at seven in the morning the ringing of a great bell announces the opening of the market, and throughout the day a vigilant police preserves order. The position of the marketplace, in the centre of the city,* its commodious construction, and the peaceable manner in which business is carried on, enhance the effect produced on the eye of a stranger by the abundance, excellence, and cheapness of its varied supplies, and combine to form a scene which, could it be viewed by our over-worked and under-fed operatives, would preach more effectively in the cause of emigration to a British colony, than other arguments, though eloquent and sincere, and teach a new lesson to many of our political economists.

There are several small forts, but, as explained under the head of military defences, there is no protection where most necdfulat the Heads of Port Jackson. The defences of the harbour are shewn in an official statement.

Fort Macquarie is situated at the extreme point of the eastern entrance to Sydney Cove, the access to which it directly com-It is a permanent work of masonry -a square of 30 feet face, having a small circular bastion at each angle affording space for one traversing gun. Three faces of the square are open to the sea, one of which is the right approach to the city of Sydney by pierced for three guns. Ten twenty-four pounders are mounted. The terreplem is twenty-two feet above the level of the sea. In the centre of the land face is a two-storied tower, with a magazine in the basement calculated to hold 350 barrels of gunpow-The tower is intended to cover a small detachment of soldiers, with the necessary The land communistores for the battery. cation is by a permanent bridge over a dry rock. This work will take in reverse any work erected on Pinchgut Island, from which it is distant 1,062 yards. A noncommissioned officer and twelve men are at present quartered in the tower; not more than six men in addition could be put under cover.

Fort Phillip is situated on the highest ground within the northern portion of the city; it appears to have been the intention

being supported by stone piers. A fountain to construct a pentagon at this point, the of water in the centre of the amphitheatre sides measuring 100 feet. The work was commenced in 1804, and partly carried up to the height of eighteen feet, six inches; nothing further was done, the plan of the work, it is presumed, being found defective. The situation is highly favourable for a work of defence (a citadel), at an elevation of 157 feet above the sea; it commands a great part of the city of Sydney, the anchorage, and the access to Sydney Cove and Darling Harbour. It also takes in reverse Dawes Battery, at the distance of 715 yards; Fort Macquarie, at 1,062 yards, and Pinchgut Island, at 2,124 yards Six six-pounder guns are placed on one of the faces of the old work, for the purpose of a saluting battery. There is a permanent magazine at this point for 200 barrels of gunpowder, but no accommodation for troops

Dawes' Battery is situated on the point forming the western extremity of Sydney Cove, which it separates from Darling Harbour. The work consists of an open barbette battery, capable of mounting six twenty-four It immediately commands Fort pounders Macquarie, at a distance of 728 yards, and also commands the approach to, and anchorage in, the Cove. The platform of the battery is at an elevation of seventy feet above the sea, to which the glacis extends. There is no accommodation for troops.

Bradley's Head is a commanding point on sea, distant about 4,596 yards. The battery, when completed, will mount seven twenty-four pounders. The site is important, commanding, as it does, the ship-channel, at 1,000 yards Ships forcing this passage would immediately come under fire from a work at Pinchgut Island, distant 2,834 yards. This work was suspended in 1842, by order of the inspector-general of fortifications. There is no accommodation for troops.

Pinchgut Island is situated nearly midchannel, on the approach to the city of Sydney, 1,062 yards from Fort Macquarie. A work on this point was put in progress m 1841, but suspended soon after, by orders The work would intersect from England. the fire from Bradley's Head, on the approach up the harbour, and would be supported by Fort Macquarie and Dawes' Bat-Vessels must pass within point-blank range of this spot.

Goat Island Magazine, at the entrance of Paramatta river, is the principal depôt for

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^{*} No beast can be killed in Sydney without inspection and certificate from an inspector appointed by the government, and for the inspection a fee of threepence is paid. All slaughter-houses are licensed.

gunpowder; there is a bomb-proof maga- tals, except Hyde Park, London, Phoenix gunpowder. There is barrack accommodathe magazine.

these forts is-mounted, 24; dismounted, 13; unserviceable, 15. Of the mounted, 16 are twenty-four pounders, 1 twelve-pounder, 1 nine-pounder, and 6 sixteen-pounders. Of the dismounted, 2 are twenty-four pounders, 4 are twelve-pounders, 2 are six-pounders.

Building land in Sydney is let at a very high rate; in George-street (the Regentstreet of New South Wales) it has been sold at £20,000 per acre, and some ground at the rate of £50 per foot. Large sums have been expended on shops, stores, and warerooms; one auctioneer spent £5,000 in the enlargement of his premises. Hotels and inns are numerous; some on a large scale, which, in luxurious appointments and high charges, may vie with the first-rate hotels in the parent state. The Royal Hotel has, it is said, already cost £30,000, and will require a like sum for its completion. The ballroom and the coffee-room are of noble dimensions; the private apartments spacious and superbly furnished, and the dormitories "scarcely to be counted."

The colonists are not sparing in efforts to improve and adorn the metropolis. There is a circular quay at Sydney Cove, on which there has been expended up to December, 1848, £27,709. The building for the colonial museum at Sydney has already cost in its construction about £6,000. On the new government-house, the residence of the representative of the queen, no less than £50,000 of the taxes raised from the colonists have been expended on the structure, although the original estimate was not more than £25,000. The new prison at Darlinghurst cost the colony up to December, 1848, fully £51,000. A general cemetery, termed the Necropolis, has been aided with £5,000 of the colonial revenues. New barracks have been built for the use of her Majesty's troops, and £60,000 have been appropriated for the purpose. More than £1,000 have been employed in making a dry dock at Cockatoo Island.

Hyde Park, a piece of land about two miles in circumference, has been judiciously reserved as a pleasure-ground for the citiposition will, when planted, surpass in beauty any of the parks attached to European capi- Esq., 1845.

zine capable of containing 3,000 barrels of Park, Dublin, and the Prater of Vienna. The Sydney gardens justly rank among the tion for a non-commissioned officer and a chief attractions of the city, and are situated guard of twelve men, for the protection of on a slight elevation which rises gradually from a picturesque and secluded cove on the The number and calibre of the guns in eastern side of the capital, and are distant about five minutes' walk from the new government-house. The site, plan, and arrangement of these gardens are all good. A stone wall, twenty feet high, which runs east and west, divides them into two portions. That on the south and land side is elevated, and devoted chiefly to botanical purposes: a magnificent pine of that most magnificent species, well named the auracaria excelsa, planted more than thirty years ago, first attracts the eye, while all around coral trees, with their rich scarlet flowers; bread-fruit trees from the Sandwich Islands; pomegranates; acacias, covered with beautiful parasites; bananas, Banksia, many descriptions of palms, and an infinite variety of other tropical trees are to be seen flourishing luxurantly in the same ground with the oak, ash, and other English trees and plants. The northern or sea-coast garden extends for nearly a mile along the shore, and is laid out in winding walks, arbours, shrubberies, green slopes, and grassy terraces, elevated a few feet above the murmuring ripple of the glassy wave. In the centre of the garden is a pond surrounded by weeping willows of immense size, and in the centre stands a plain granite obelisk, dedicated to the memory of Allan Cunningham, the celebrated Australian botanist and traveller, whose indefatigable exertions and correct taste contributed materially to the formation of these gardens.* The government demesne, close to the gardens, is a well shaded and pleasing drive; and during the week-days the performances of one of the bands belonging to the regiment stationed at Sydney, adds to the pleasure of the gardens, which however seldom present so animated a scene as on Sundays, when thronged by all classes of the citizens.

Sydney is supplied with water, partly by wells sunk fifteen to thirty feet below the surface, and partly by a tunnel or subterraneous aqueduct, about two miles and-aquarter long, which conveys water from the Lachlan swamp to the south-east end of the city. Four-fifths of the tunnel, the whole of zens, and from its elevated and agreeable which averages five feet in width, and the

* Sketch of New South Wales, by J. O. Balfour,

same in height, is excavated in the solid rock, and the remainder is formed through sand, with chiselled masonry without cement. as the main tunnel; the entire mass of excavation throughout the work amounted to 255,930 cubic feet. Springs (met with in the progress of the work) furnish additional supplies to the aqueduct. The tunnel was commenced in September, 1827, and the expenditure on it up to the 30th of June, 1837, was £22,971. It furnishes water for about 30,000 of the citizens.

Sydney was incorporated in 1842, and the charter of incorporation entitles the citizens, holding tenancies of £25 per ann. to the control over all local affairs, excepting the police, the management of which still remains vested in the executive government.

The corporation of the city, under the authority of an act of the colonial legislature, 6 Vict., No 3, section 67, levy a rate, by assessment, on the inhabitants of the city; and under the 70th section of the Act of Incorporation, a police rate is raised by assessment. There are other sources of income for the corporation, viz -a water rate for water laid on to houses, lighting rate; rent of three fountains in the city, The markets, fines, fees, and heences revenue raised, under several heads, was-

Items of Revenue	1845 1846 1847 1946
City rate assessed Police fund Markets, dues, and rents Fees and fines Lucences, &c	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
In aid of city fund Water rate and licence Lighting rate	129 14 1,199 1,331 1,863 804 216
Total	10,191 6,618 11,409 12,591

* In compliance with the wishes of correspondents that this work should be a reference for mercantile men as to the commission, agency, and other charges in our several colonies, I give the following data relative to New South Wales, but at the completion of the whole work there will be given with the last volume a statement of the rates of interest of money, commission and agency charges, rates of insurance, tariff of customs, &c., in the several dependencies of the British crown.

General rates of agency, commission, and warehouse rent, agreed on at a meeting of the New South Wales chamber of commerce .

Commission per cent —On all sales or purchases of ships and other vessels, houses or lands, where no advance on them has been made, 2½, on all other sales, purchases, or shipments, 5, on sqoods consigned, and afterwards withtrawn, or sent to public auction, if no advance on them has

The mayor of Sydney has an annual salary of £800; and eleven other different officers of the corporation have salaries There are three offcuts, one forty-five feet in amounting, in the aggregate, to about length, another eighty feet, and a third £2,200. The repairing of the streets of 284 feet, all of the same depth and width the city costs about £8,000 a-year; the water-pipes and repairs of fountains, £2,200; the lighting, £700. The police of the capital, and of the colony generally, are paid out of the general revenues the cost for 1848, was-city police, on land, £7,464; water ditto, £1,432; these charges are irrespective of the police in the interior, which cost, during the year 1848, within the settled districts, £21,229; mounted police, £9,177, native ditto, £227; showing a total annual charge for police in New South Wales of £39.529.

The census of March, 1846, gave the census of the city—males, 20,810, females, 17,548 = 38,358. The suburbs, at the same period, stood thus-Balmain, males, 682; females, 655: Camperdown, males, 125; females, 176 · Canterbury, males, 128; females, 64. Chippendale, males, 219, females, 197 the Glebe, males, 538; females, 522. Newtown, males, 631; females, 584 O'Con nelltown, males, 25; females, 15: Paddington, males, 422; females, 404: Redfern, males, 437; females, 428. St. Leonard's, males, 223, females, 189 Surry hills, males, 121, females, 86. Total in the suburbs, males, 3,546; females, 3,286 =Thus, in March, 1846, the city and its environs contained 45,290 English, or English-descended inhabitants. [March, 1850] contains, probably, about 00,000 of the Anglo-Saxon race.

Sydney has a Chamber of Commerce, which is composed of the merchants, shipowners, and others interested in the trade of the colony.* An Australian Club was instituted in the year 1838, and numbers about

been made, $2\frac{1}{2}$, on giving orders for the provision of goods, $2\frac{1}{2}$, on guaranteeing sales, bills bonds of other engagements, $2\frac{1}{2}$, on the management of estatus for others, 5, 23, on guaranteems sales, bills bonds on other engagements, 24, on the management of estatic for others, 5, on procuring freight or charter on passage money, and on freight collected, 5, on insurances effected, 2, on setting losses, partial or general, 1, on effecting remittances, or purchasing, selling, or negotiating bills of exchange, 1, on the recovery of money, 28, if by law or arbitration, 5, on collecting house rent, 5, on attending the delivery on contract goods, 2, on becoming security for contracts, 5, on ships' disbursements, 5, on obtaining money on respondentia, 2, on letters of credit granted, 25, on purchasing, selling, receiving from any of the public offices, lodging in ditted of an account on which a commission of 5 per cent has not been previously charged in the same account, including government paper, 1, on entering and clearing ships at the custom house, each 1 guines

Warehouse rent—On all measurement goods, 1s per ton 640 cubic feet per week, on liquids, 1s 1d per tun of 253

cost nearly £10,000, contains good accom- other rising places south of Port Jackson. modation; the entrance fee is £30; the annual subscription, £7 10s. The society indicate the state of the city. There is, indeed, excellent society in Sydney for the most punctilious gentleman; he may colony; the members of the government; the magistracy, numerous members of the proprietors, and mercantile men of all grades At the balls and assemblies in the capital, the beauty and elegance of the Australian belles is a theme of general admiration; eclipsed by the fair face, fine form, and witching graces of the "currency lasses"*

Sydney has its omnibi as well as London, they ply constantly between Paddington, on the South Head road, and the Star hotel, George-street, and between other parts of the city; hackney-carriages and cabs are also numerous

There are several well-appointed fourhorse coaches, such as could not now be found in England, plying between Sydney and Paramatta, Windsor, Richmond, Liverpool, and other towns in the interior. There is also a regular stage conveyance to Melbourne, Port Phillip. The several mailcoaches for the western and southern districts leave the post-office, Sydney, every afternoon (Sundays excepted), at five o'clock. The Age, Australian, and Water-witch fourhorse coaches leave Sydney daily (Sundays excepted), for Windsor and Paramatta.

Fast and commodious steam-boats ply daily, morning and evening, between Sydney and Paramatta; and there is constant steam communication with Hunter's River, Port Stephens, Port Macquarie, and also with

gallons (old measure), per week; on sugar, rice, salt, and similar articles, 6d per ton per week, on grain, 4d per bushel for first month, and one half-penny per bushel, per week afterwards, on iron, lead, &c, 4d per ton per week.

The following are the premiums charged by the Australian Marine Assurance Company for insuring vessels and merchandize :-

Per cent — Sperm fishery, for twelve months, 8 to 10 guineas, ditto, for the voyage, 8 to 14 guineas, Hobart Town, to or from, 1 guinea, Launceston, ditto, 14, New

300 members. The club-house, which has Melbourne, Port Phillip, Boydtown, and

Some of the recorded statistics of Sydney met with at the Australian Club is, in point 1844, there were "eighty-six licensed stageof good breeding and general intelligence, coaches plying in Sydney; 186 heensed quite on a par with the generality of London draymen; and twenty-four licensed porters. clubs, and the rules by which it is governed The total number of licensed slaughterequally stringent, not to say exclusive houses for the year was fourteen there are about 130 licensed watermen plying within the boundaries of Sydney. The total numchoose his acquaintance from the thirty-six ber of dogs registered in Sydney is only members of the Legislative Council, the 1,766: there is reason to believe, that the bishop, archdeacon, and other clergy, the number prowling about the streets, without three judges; law officers of the crown; any ostensible owner, is upwards of 3,000." the officers of the troops stationed in the It is fortunate that hydrophobia is unknown ın Australia.

The Sydney post-office has been, for the medical and legal professions; and landed last quarter of a century, under the management of an able and zealous postmastergeneral, James Raymond, Esq., who has carried into effect numerous improvements. The metropolis holds communication with and many a born Englishwoman finds herself four districts in the colony—the western, southern, northern, and coast districts. The western, in 1848, contained fourteen district post-offices, the most distant (Wellington) being 230 miles, and the second nearest (Paramatta) fifteen miles; the letter-charge to the latter is fourpence; to the former, tenpence. At Paramatta the delivery is twice daily, at six other places, daily: and, at the others, twice or thrice a-week. In the southern district there are thirty-five district post-offices; the nearest (Liverpool) is twenty miles, and the most distant (Belfast) 817 miles, the despatches are five daily, and the remainder twice and thrice a-week. The northern district has twentyfour post-offices, to each of which there is a daily, bi, or tri-weekly despatch. The coast stations have their post-office deliveries and despatches regulated by the steam-packets plying between them and Sydney. The number of letters despatched from Sydney post-office, in 1843, was 822,733; and the number of newspapers was 905,709. Compared with 1837, the number of letters had increased two-and-a-half-fold; and the newspapers three-and-a-half-fold. The post-office

Zcaland and South Sea Islands, per month, 1, Manilla and China, to, 2½, from, 3, Madras, Bombay, and Calcutta, to or from, not including risk through Torres' Sratis, 3, Mauritus, ditto, ditto, 1 to 4, Cape of Good Hope, ditto, ditto, 2½, United Kingdom, ditto, exclusive of war risk, 2½ to 3½, Rio de Janciro and Bahia, datto, datto, 2½

* For some years there were two denominations in the circulating medium sterling and colonial currency, the European born obtained the name of sterling, and the colonial that of currency.

collections, at present, amount to about miles; Ellerslie branch, 101 miles; Penrith £15,000 a-vear.

The distances, in English miles, of the different post towns in the colony, in 1848, from Sydney, are thus stated -

Western District-Hyde, 8; Paramatta, 15; St. Mary, 29; Penrith, 33, Windsor, 34; Richmond, 39; Hartley, 78; Bathurst, 113; O'Connell, 125; Carwar, 144; Mudgee, 150; Molong, 163; Canowindra, 176; Wel-

lington, 230. Southern District-Liverpool, 20, Camden, 33; Appin, 43; Picton, 46, Wollongong, 64; Dupto, 72; Berrima, 81, Goulburn, 125, Gunning, 152; Bungendore, 161: Ulladulla, 163, Braidwood, 164; Yass, 117; Queanbeyan, 182; Broulee, 209; Gundagai, 244, Ovens, 429; Seymour, 528, Kilmour, 549, Melbourne, 587, Ballan, 637; Geelong, 641; Grange, 773, Belfast, 817.

Northern District—Patterson, 10, Carrington, 16; Clarencetown, by water, 24, Gresford, by water, 25, Wollombi, by water, 27, Singleton, by water, 31; Dungog, by water, 45; Jerry's Planes, by water, 46; Muswellbrook, by water, 59; Merton, by water, 66, Scone, by water, 75, Murrurundi, by water, 99, Cassilis, by water, 125; Armadale, by water, 150; Tamworth, by water, 154. The distance of the other post towns by water to the north and south of Sydney is not laid down post towns have been added to the above list

tram roads at least will be made the north-western regions. Sooner or later New South Wales, Port Phillip, South Aus tralia, and subsequently Western Australia, will be connected by railroads, for the colonists have plenty of iron, coal, and wood, for their construction, and the want of navi gable rivers will necessitate the adoption of this mode of locomotion Mr. Woore has set forth a project for a railway to connect Windsor, Penrith, Ellershe, Vermont, the Oaks, Bong-Bong, and Goulburn with Syd ney. The main line from Sydney to Goulburn, is 122 miles; the Windsor branch, 131

branch, 8½ miles = 154½ miles.

Whereas the distances from Sydney by he present lines of road are-to Paramatta, 14; Windsor, 39; Penrith, 33, Goulburn, 125; Bong Bong, 80; Camden, 39. hese 154½ miles of railway, fifty-four miles run through government land, and 1021 miles through private property. miles is already cleared of timber, and 1343 miles to be cleared. Supposing the line to be three chains wide, or 198 feet, and 1541 miles long, it would contain 3,708 acres, ,460 of which would be through private Kiama, 88; Shoalhaven, 103; Marulan, property, and 1,248 acres through govern-108; Bungoma, 117; Huskisson, 121; ment property. In the course of the line, with the exception of the Windsor branch, there are, besides the formation of the road. eight deep cuttings, and seven side cutings. The erections are, five termini, seven stations, two brick or stone viaducts, ten second-class wooden viaducts, eight firstbridges, twenty-three second-class bridges, eighty-three third-class bridges, seventy-four culverts, and about eight accommodation bridges.

By means of wooden instead of iron rails, the wheels of the locomotives "bite" closer, and steeper gradients may be ascended. The estimated cost of this line, with wooden rails, 18 £419,403, or only £2,714 per mile. Of this sum 275,000 sleepers, nine feet long, (rough square,) being for two lines on 1541 Since 1848 several other miles, each six feet from centre to centre, five shillings each, cost £68,000; making There are no railroads as yet in New 154 miles of road cost £300 per mile = South Wales, but it is probable that ere long £46,200; eight cuttings, £16,000; seven-The iron side ditto, £10,500, building bridges, culand other hard woods of Australia would verts, stations, termini, draining, &c, about serve in the first instance instead of iron £120,000, laying sleepers and rails, £200 rails; by this means roads might be made per mile, £30,900, 3,270,000 feet of scantround the head of Botany Bay, through ling, 8 x 4, at twelve shillings per 100 = the valleys to the southward, through the £19,620, locomotives, carriages, turn-tables, rich Maneroo country, and towards Illa- &c, £50,000. These details give some idea warra. Another trunk line would lead to of the difference of cost between a railway in the United Kingdom and one in Austra-At Sydney excellent steam-engines are lıa made: the carriages and everything required would be prepared in the colony.

> Having, in the previous pages, carefully gathered together-even at the risk of offering what some may consider dry detail—the materials from which my readers may, I trust. be enabled to form a correct idea of this fair and youthful city, I may conclude with a few general remarks. My own feelings, on first landing, from the east coast of Africa

were those of mingled delight and astonishment. I was not prepared to find, at the antipodes, a city so home-like, so thoroughly English in its character; nor could I have believed it possible that a colony of such comparatively recent establishment, founded too under very peculiar circumstances, could have acquired a degree of order, comfort, cleanliness, and security, not inferior to that which distinguishes some of the best and oldest cities of the mother country. Lest, however, it should be supposed that a bias in favour of this colony, or of the British colonies generally, influences (even unconsciously) my pen, in writing of them, I prefer quoting, as far as practicable, the statements of other writers, and citing the impressions produced on the minds of other travellers, instead of merely offering my own opinions.

Count Strzelecki, writing in 1839, says :-"Since my arrival in Sydney, I cannot help asking myself-Am I really in the capital of that 'Botany Bay,' which has been represented as 'the community of felons'-'the most demoralized colony known'? &c. &c. Let the authors of these and other enthets contained in the works they wrote on New South Wales congratulate themselves! mystification was complete. The evening I effected my disembarkation in Sydney, I did it with all imaginary precautions, leaving my watch and purse behind me, and arming myself with a stick. I found, however, in the streets of Sydney, a decency and a quiet which I had never witnessed in any other of the ports of the United Kingdom. No drunkenness, no sailors' quarrels, &c., &c. Since then, how many nights like the first did I not witness, in which the silence, the feeling of perfect security, and the delicious freshness of the air, mingled with nothing that could break the charm of a solitary walk!"

Captain Stokes, R.N., of H.M.S. Beagle, who visited Sydney in 1840-1, says he was much struck with the strange contrast its extensive and at the same time youthful appearance presented, compared with the decreptd and decaying aspect of the cities in South America, which he had recently quitted, and which were founded two centuries ago, by a nation at that time almost supreme in Europe, upon the shores of a fertile continent. In Sydney he beheld with wonder what scarce half a century had sufficed to effect; for, "where, almost within the memory of man, the savage ranged the desert wastes and trackless forests, a noble

city has sprung, as though by magic, from the ground, which will ever serve both as a monument of English enterprise and as a beacon from whence the light of Christian civilization shall spread through the dark and gloomy recesses of ignorance and guilt."—(Vol. i. pp. 244-5.)

Mr. C. I. Baker, who recently visited Australia, describes very naturally the impression made upon strangers from the United Kingdom by the Australian metropolis. "Sydney is certainly an extraordinary place; and if the colony continues to progress as it has done during the last twenty or thirty years, it will, ere another generation have passed away, be one of the first cities in the world. A new-comer rubs his eyes, and repeatedly questions whether his long voyage has not been a dream, and he himself still in the mother country: the streets, the houses, the shops and other buildings, the carriages, including stage coaches, flys, and cabs, are all constructed as in England; the bustling busy population are all English or thoroughly Anglified; so also are the various customs of life, the goods displayed in the shops, the furniture, the grates with their coal fires, the style of living and mode of cooking, the wine, beer, &c.; in short, from first to last, you have England, and England only." *

In another place, Mr. Baker bears the following testimony to the character of the people. It is after adverting to there being one, or sometimes two of her Majesty's regiments stationed at Sydney, and a great many sailors from all parts of the world frequenting the port, he adds-"Yet it is one of the most orderly towns a traveller can visit I witnessed neither the brawl nor drunkenness, nor the shameless prostitution which so often shock and offend in our own streets; whilst the only beggars I met with were two blind men Another proof of the prevalent order of the town is the general decorum observed on the sabbath. On the whole, great credit is due to the authorities for their excellent government of a population, amongst whom might be expected much disorder and unseemly immorality."-

(pp. 132, 133.)

No government could, however, preserve the order and decency so manifest in Sydney, unless seconded by a strong sense of propriety in the inhabitants themselves, who attach great importance to the obtainment and maintenance of a good character

[·] Sydney and Melbourne, 1 vol. 1845.

and a fair fame; * and Mr. Baker speaks of having been struck by "the superior breeding, education, and intelligence of many of the settlers not locating in fellowship in any particular neighbourhood, but amply scattered throughout the colony—men, moreover, of unblemished character, active in mind and body, and of agreeable and open manners."

PARAMATTA, the second town in the county of Cumberland, was established, as we have already seen (p. 403), in the very early days of the colony. For a considerable time it was merely an encampment, or succession of huts, and the older settlers continued to speak of it as the camp, long after it had grown to be a village, and even a The name of Rose Hill, given by its first European inhabitants, has been happily superseded by the native designation of the river on which it is situated. The river is, however, chiefly a continuation of Port Jackson, its waters being salt until just beyond Paramatta bridge, where a dam thrown across by governor Macquarie, checks the further advance of the tide. The commissariat store, a large brick building, occupies a position at the extremity of the town, close to the beach, permiting boats to go alongside and have their cargoes hoisted up into its capacious granaries, while beyond this is a water-mill-a dam being here carried across, to keep up the necessary supply to work it.

The town extends over a considerable extent of ground, and is built along a small fresh-water stream, which falls into Paramatta river. The streets are regularly laid

• The diminution of crime of late years in Sydney, and throughout the whole territory of New South Wales, is very remarkable, and will be found detailed under the section on Crime, but it may be useful to give here a statement of the number of felonies in the colony for ten years—showing their number in proportion to the population, and to each 10,000 inhabitants, thus—

Years	One in each	To each 10,000 Inhabitants
1839	148	67
1840	196	51
1841	208	48
1842	276	36
1843	294	36 34
1844	327	31
1845	862	27
1846	358	28
1847	449	27 28 22
1848	481	21

This shews an actual decrease of more than forty per cent, and a relative decrease of crime of more than sixty-eight per cent in ten years.

out-the principal of them, George Street, is about a mile in length; the houses, which are generally detached from each other, and partly surrounded with gardens, are mostly built of brick or white freestone-the latter being very abundant, and, from its excellent quality, much used for grindstones. public buildings are substantial and well constructed. The government-house is agreeably situated on an eminence, in a somewhat extensive demesne, amid carefully tended gardens; Sir Thomas Brisbane, who made it his chief residence during his administration, erected an observatory, which he placed under the superintendence of a skilful astronomer, named Dunlop. There is an excellent institution for orphans, situate on the banks of the river. In the vicinity of Paramatta is a Convict Lunatic Asylum, which contained on 31st December, 1848, eighty-eight male, and ten female invalids; 104 male, and twenty-four female lunatics, to these are attached, as servants, ten male and one female convict. The town lies in a sheltered valley, and its climate, during the winter months, is delightful, but in the summer the heat is sometimes intense, the difference of temperature between it and Sydney being generally as much as from six to ten degrees

Paramatta is a corporate town, having a municipal district council; the annual income is about £1,200, consisting chiefly of The cloth manufactured here has obtained a high character, not only in the colony, but also in the mother country; and a soft woollen fabric called "Paramatta," has become equally celebrated, being (I am told) now deemed by the ladies as indispensable an article in their mourning attire, as bombazeen was, in that of their grand-Several other manufactories have mothers. been recently established in the neighbourhood. A recent writer says, that "a silk institution has been formed there, under able management, and mulberry planting on a large scale has been commenced;"+ and in the same work it is elsewhere stated, that extensive works for the smelting of copper ore are in operation at Lane Cove, on the Paramatta river. There are large salt works on the banks of the Paramatta river.

Paramatta, being the high road to Windsor and the northern districts, has numerous and commodious inns. It is much frequented by visitors from Sydney. The country in

† New South Wales, by a resident of twelve years' experience. 1849.

its immediate vicinity is very pleasing, extensive orangeries thrive luxuriantly, and in many places the land is well cultivated.

The distance between Sydney and Paramatta is about eighteen miles by water, and fifteen by land. Steam-boats run morning and evening between the two towns, and carry a great number of passengers. The trip by water is a delightful one; for, after leaving Sydney, a considerable portion of the interior of Port Jackson is traversed before entering the river, which forms some reaches, whose beauty must be acknowledged even by those who have but just before gazed upon the "harbour of an hundred coves." By land it is much less agreeable, the soil being generally of inferior quality, and the scenery very monotonous, notwithstanding the various dwellings, from the mansion and its spacious pleasuregrounds, to the cottage with its neat garden, and the only too numerous public-houses, which at intervals, on either side, indicate The oldthe vicinity of a thriving town. established family of Blaxland have a fine estate on the road between Paramatta and Sydney; and the large mansion and excellent farm of the late D'Arcy Wentworth is on the same line. Farms are also being formed along the Paramatta stream; and a the river called Kissing Point.

beyond the river, a good road runs for some distance along the right bank of the stream, in a north-west direction, which leads to Windsor, the distance being about twenty which at this point is 140 miles distant from place. tons burthen, four miles above Windsor. The town is very pleasantly situated, being built on a hill elevated 100 feet above the addition of a Male Orphan School. those of Paramatta. case, indeed, throughout the colony, are large and excellent; stage-coaches ply every day to and from Sydney via Paramatta, and steam-boats thrice a week, the distance between Broken Bay, where the Hawkesbury disembogues into the sea, and the north miles. The land in the vicinity of Windsor in size and opulence.

is extremely rich, and being in the possession of numerous small farmers, is carefully tilled, so that frequent farm-yards and extensive fields of grain, with herds of kine, add to the natural beauty of a very picturesque country. In some parts the broad and placid waters of the Hawkesbury are overhung by cliffs 600 feet in height, and the numerous vessels and boats on this noble stream form another attractive feature, and render it a favourite resort.

The town of Wilberforce hes on the opposite side of the Hawkesbury, obliquely to the right; and obliquely to the left is-

Richmond, a rising inland town, distant

from Sydney thirty-nine miles.

Laverpool is situate on the banks of the George River, which disembogues in Botany Bay. Many persons, long accustomed to the term of "Botany Bay," believe that the colony is founded on the shores of this extensive inlet of the ocean. I have already stated, that such was the original intention, but it was never carried into effect: and the shores around Botany Bay are nearly as wild, as bleak, as barren, and almost as uninhabited, as when they were first visited by captain Cook and Sir Joseph Banks. Botany Bay is about fourteen miles to the southward of the Heads, as the entrance of Port village is springing up on a pretty turn of Jackson is called; it is wide, open and unsheltered for vessels. I visited it, not liking From the portion of Paramatta situated to leave the country without having seen eyond the river, a good road runs for some this famous spot. The only advantage stance along the right bank of the stream, derived from my journey, was the opportunity of contrasting the dreary desolation around its shores, with the busy hum of miles. This town, formerly called the Green human industry at the contiguous harbour Hills, at present containing about 2,000 in- of Port Jackson, and of being reminded that habitants, is situate near the confluence of about half a century ago, there was no difthe South Creek with the Hawkesbury, ference in the wild waste of nature at either The country is flat around, but the sea, and navigable for vessels of 100 cleared and cultivated, though the soil is poor; the public buildings are the same as in the towns previously described, with the level of the Hawkesbury, and commanding Church is a good structure, but insufficient a beautiful view of the surrounding country; for the wants of the town. The Hospital its population and buildings are similar to is a handsome building, well adapted for the The inns, as is the benevolent purpose of contributing to the relief of the population for miles around. Three miles beyond Liverpool is Lansdowne bridge, which is built of stone (by convict labour); the arch being of 110 feet span. There are stage-coaches daily between Liverpool and Sydney. It now contains about head of Port Jackson, being about fourteen 5,000 inhabitants, and is yearly increasing

A new town called Canterbury has been and dale, the former sometimes rising into

refining sugar.

population), viz.: - Campbelltown, Appin, range, consisting chiefly of trap rock, tra-Penrith, Pitt-town, Petersham, Narellan, &c., are arising in different directions; each with its church, gaol, court-house, market, mill, and numerous spirit and general stores; and as population increases, they will augment in number and in extent. The so much of this county is mountainous, and post-roads throughout the county of Cumberland are numerous, regularly cut and levelled, well made, and kept in good macadamized order, by means of the tolls from turnpikes erected near the entrance of the side of the Shoalhaven river. each town. The great thoroughfares have four railed fences at each side of the road, and mile-stones throughout. There are many cross-roads, some still in the original bush state, and known only by notched trees and a cart-rut.

Previous to quitting the county of Cumberland, it may be mentioned, that the road through the northern part, towards Wiseman's Ferry, to the Blue Mountains, has been made by following one continuous ridge of sandstone; but the western route, by Paramatta, is free from precipitous ravines, and the undulations sufficiently moderate, to admit the passage of a straight road, the soil also is good, consisting chiefly of decomposed trap, and producing crops as abundantly now, as when it was first tilled, forty vears ago. In the neighbourhood are the hospitable mansions of the Lawsons, Lethbridges,* and other much respected settlers, who, in the early days of the colony, emigrated to New South Wales, and have conthe land of their adoption.

CAMDEN COUNTY is divided from the county of Cumberland by a line bearing W. 20° W. from Bulli, on the sea-coast, to with the Wollondilly, there called the War-

commenced, six miles from Sydney, where mountains, whose steep sides are clothed extensive works have been constructed for with varieties of lofty timber. There is some scenery in this county of a peculiarly Other towns and villages (see chapter on wild and gloomy character. A remarkable verses the whole county, between the Wollondilly and the sea, in a south-east direction, extending from Bulli to a small boat harbour named Kiama; the highest part is known as the Mittagong range. Although a large portion of its area consists of ferruginous sandstone, it yet contains an unusual proportion of excellent grazing land, and also much good wheat land, especially towards Razor-back range is another remarkable feature in this part of the country. It is isolated, extending about eight miles, in a general direction, between W N.W. and E.S.E., being very level on some parts of the summit, and so very narrow in others, while the sides are also so steep, that the name it has obtained is descriptive enough. Around this trap range lies the fertile district of the Cow Pastures, which are said to comprise about 60,000 acres, the greatest part consisting of a light, sandy loam, resting on a substratum of clay. These pastures extend northward from the river Bargo to the junction of the Warragamba and Nepean rivers; they obtained their name from the large number of cattle found there, which had for their original stock three runaways, belonging to the herd landed from H.M S. Sirius, soon after the founding of the colony. Barragorang, in this county, is a long narrow valley, hemmed in between a continuous ridge and the Blue Mountributed materially to the improvement of tains, with only one pass into it, and that a very precipitous one. It runs north and south along the banks of the Warragamba, and consists of a stripe of rich soil, matted with the finest native herbage, and most the head of the Cataract river, thence by picturesquely variegated with rocky and prethat river and the Nepean to its junction cipitous mountains, frowningly impending on either side, their rugged declivities occaragamba; on the west by the river Wollon-sionally adorned with waving shrubs and dilly to the junction of Uringalla creek, verdant heaths. But the most interesting sionally adorned with waving shrubs and and by the Uringalla and Barber's creek to portion of Camden county is the Illawarra, the Shoalhaven river; on the south by the a narrow stripe of arable land, situated be-Shoalhaven river, which separates it from tween the ocean and the eastern base of a the county of St. Vincent; and on the east lofty ridge of trap rock, running parallel to by the ocean. The extreme length of Cam-the coast, and connected with Mittagong den county is about sixty-six miles, and the range. The average breadth of this belt of extreme breadth fifty-five miles. Its surface land is from four to six miles, and its length is, in general, a continued succession of hill about sixty. This singular reg on is termed

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by the colonists the garden of New South inhabitants consist chiefly of small settlers, tical plants of various kinds, which, stretching from tree to tree, form a sort of embowered roof, afford a perfect refuge from the sun's too fervid rays, and overshadow a rich and varied undergrowth of wild vines and matted creepers. No pestilential vapour, no deadly miasm lies in wait to poison, with insidious influence, the unwary loiterer. In Eastern Africa (at Zanzibar), Madagascar, and Java, I have looked upon regions (in many respects resembling this) which seemed, at first sight, to realize the idea of Eden; but painful experience soon teaches a European, that to him these fair scenes are fraught with disease and death; and the contemplation of them inspired me with much the same feeling with which a man would regard the mask, whose painted beauty served as a temporary cover to loathsome deformity.

It is difficult to account for the tropical character and extraordinarily luxuriant vegetation of Illawarra. It may be in some degree attributable to the shelter afforded by the adjacent mountains from the cold winter winds, the nourishment obtained from the streams which flow from those heights, and the moist breezes of the sea: but I am inclined to think with Dr. Lang, that the chief cause may be traced in the soil, which exhibits many indications of a volcanic origin. In some parts of the district of Illawarra, or Five Islands, (as it is meadows, of fifty to a hundred acres in extent, quite destitute of timber, and surseveral extensive tracts are in the hands of p. 238.) non-resident proprietors, a circumstance (he adds) always to be regretted wherever is of but indifferent quality, though at the it occurs in the colony; but its resident

Wales; Mitchell, Lang, Cunningham, Stokes, who cultivate grain, potatoes, pumpkins, and other writers, speak in the most en- &c., for the Sydney market, their produce thusiastic terms of its surpassing beauty. being conveyed to the capital by water, in The charms peculiar to mountain scenery small coasting vessels. The cedar-tree, both of the wildest and most romantic order, white and red, abounds in the mountains and those also which characterize more of this district and in the deep gulleys; and particularly the shores of a mighty ocean, the cutting and conveying to Sydney affords are each enhanced by the rich luxu- employment to a considerable population, riance of tropical vegetation, while birds of somewhat similar, both in habit and chaexquisite form and brilliant plumage take racter, to the lumberers of Canada. The their flight through the clear, exhilarating cedar of New South Wales is used all over "Australian" air. The stately palms, the the colony for all sorts of cabinet and joinery graceful tree-ferns, and the lofty cedars, work; it is somewhat similar, in appearance, entwined to their very summits by parasi- to Honduras mahogany, and the choicer specimens take a fine polish. Its price depends on the number of buildings going on in the colony at any particular time; but it is generally sold at twopence to threepence per superficial foot of one inch in thickness. Illawarra is rendered very difficult of access by the numerous ravines in the range which forms its western boundary, to whose summit, on the interior side, sandstone extends. Half-way down Illawarra mountain (the height of which is estimated by Dr. Lang at from 1,500 to 2,000 feet high, and whose descent to the beautiful Illawarra country is the most precipitous and rugged bridle road, used in the colony for a road), is a singular place of refuge, so capacious as to have received three horses and their riders, formed by a dead tree of immense size, the interior of which has been consumed by fire, although it is still about 100 feet in height.* About nine miles from the foot of the mountain is the thriving little village of Wollongong, situated on a small harbour on the

Berrima, the county town of Camden, is eighty miles from Sydney, and is situated in a hollow, on the Berrima river. It is 2,096 feet above the level of the sea, and the climate is sensibly different from that of the low country towards the coast. The gooseberry and current thrive and attain a good size and flavour on this table-land; while the potato and the apple acquire an sometimes called, from some rocky islets European character; but the maze and the which lie near the coast,) there are grassy orange, which succeed well below, refuse to grow in this higher region. The children also, at Berrima, have fine ruddy faces, as at home; rounded with a border of the lofty fan-palm, unlike the pale faces of Sydney and the or cabbage-tree. Dr. Lang states, that lower country generally. (Lang's Phillipsland,

The country immediately round Berrima

· Lang's New South Wales.

distance of a few miles it becomes of a much Minumurra. Creeks.—Myrtle, Werriberri, better description; one chief inducement in Wollondoola, Black Bob, Yarringal, Brothe choice of this locality having been its ger's, Broughton's, Mullet, and Wattle. abundant supply of good water, materials *Eminences*.—Jellorr, Bonnum Peak, Keera for building, and the vicinity of a small Bonnum, Keera, Bulho, Kembla, Nundialla. agricultural population. The church, court- and Pianeng, several of which command house, and gaol are handsome buildings; extensive and magnificent prospects. and at the entrance of the township is a substantial bridge of stone-work.

Camden, the estate of the Messrs. Macarthur, is a remarkable place; it extends for many miles along the bank of the Cowpasture river (on the Camden side), and exhibits striking proofs of the enterprising spirit of its proprietors. The best kinds of grape, from the Rhine, Madeira, and other vine-growing countries, have been imported by these gentlemen, who have also brought out several German families, at their own cost, for the purpose of introand preparing wine.* These laudable efforts appear likely to prove very successful; and the Messrs. Macarthur will rank, as promoters of production and manufacture in their native land, second only to their worthy father. Their farming is pursued on an excellent system, and is very productive Silos, or subterranean granames, have been constructed at Camden; and Mr Atkinson mentions one (filled with maize and millet) being opened there, after the expiration of six months, and a great part of the grain taken out, which proved to be in a state of perfect preservation, and the straw lining quite sound and dry, except a little near to the under surface of the brick arch.+

Towns not before mentioned. - Wilson, Picton, Kiama, and Murrionbah. Rivers .-Wingecarribee, a fine freshwater stream, rising in a swamp of that name, and flowing through Berrima, which empties itself into the Wollondilly; the Nattai, which flows into the Wollondilly at Barragorang; the Cataract, Kangaroo, Avon, Bargo, and

* The first cultivators of the vineyard of the Messrs Macarthur were some piratical Greeks, sent out as convicts, who, at the expiration of their sentences, returned to their own country

+ The construction of silos in those countries (s. e., Hungary, Poland, &c) where they are in common use, is exceedingly simple. An elevated site is fixed upon (if possible, the punnacle of a small mount), so that there can be no drainage of water into the granary from higher ground in its vicinity. A pit is there sunk, resembling an inverted lime-kiln; the depth and dimensions of this pit must depend upon the quantity it is required to contain, which may be 200 or 2,000 bushels (See Atkinson's Account of Agriculture and Grazing in New South Wales, p. 75.)

ARGYLE COUNTY is bounded on the north by the river Guinecor, from its junction with the Wollondilly, to its source near the Burra Burra lagoon on the dividing range; on the west, by the dividing range from Burra Burra, by Cullarin to Lake George, including the three Breadalbane Plains; on the south by the northern margin of Lake George to Kenny's Station; from Lake George to the Alianovonyiga mountain, by a small gulley, descending to the lake; from Alianovonyiga, by the ridge extending south-east, to the hill of Wollowolar; and from Wolducing the best mode of cultivating the grape lowolar by the Boro creek, to the Shoalhaven river, to the junction of the rivulet from Barber's creek; by the rivulet, from Barber's creek to its source; across a narrow neck of land to the head of the Uringalla creek; by the Urıngalla creek to its junction with the Wollondilly river; and by the Wollondilly to the junction of the Guinecor above-mentioned; the nearest point to the sea being distant about twenty-five miles. Argyle is about sixty miles in length, its average being from twenty-five to thirty miles. The surface is generally undulating, consisting of tolerably high and extensive ridges, ramifying in various directions, with swelling hills and irregular plains and vallies between them, watered by the Wollondilly and other branches of the Hawkesbury and Shoalhaven rivers, besides a number of small rivulets and ponds containing water all the year round.

> Argyle contains large tracts of open forest, where the basis of the soil is granite, and the country, though pleasing to the eye, from its park-like appearance, is poor, and seldom adapted for cultivation; but the soil is light, dry, and extremely well-suited for sheep-grazing, the surface being covered with a thin but very nutritive herbage. In other parts, however, whinstone predominates, and the land is of the best quality, being equally well fitted for either pastoral or agricultural purposes. Sir Thomas Mitchell speaks of the anthistiria or oat-grass, which grows in these tracts, as the best of any Australian grass for cattle, and one of the surest indications of a good soil and dry situation. Argyle is rich in minerals; cop-

per of the best ore is found near Arthurs-Towrang, is a quarry of crystalline variegated marble, which has of late years been wrought to a considerable extent for chimnev-pieces, tables, and other ornamental purposes.

Goulbourn, or Mulwarree, the county town of Argyle, distant 120 miles from Sydney, is situated in a fine tract of country, fifteen miles in length, with an average breadth of eight miles, called Goulbourn Plains, and is in the centre of an extensive pastoral and Dr Lang deems it, agricultural district. beyond comparison, the finest town in the interior of New South Wales, and says that the buildings generally are of a much more substantial character, as well as of a much finer appearance, than those of most inland colonial towns. It is a busy and thriving place, and annually increasing in prosperailway with Sydney, if carried into effect, will add to the importance of the place There is an extensive flour-mill, with a fourteen horse power steam-engine; a brewery, also carrying a steam-engine; and the inns are stated to be "quite splendid for the interior of a colony." The amount of business done in these establishments is indicated by the fact, that Mr Bradlev, their proprietor, pays £700 a year for carriage between Goulbourn and Sydney. The members of the church of England, Presbyterian. and Roman Catholic persuasions have each a neat temple devoted to their respective forms of worship. The Goulbourn, or Mulwarree Plains are supposed to have been, at no very distant period of time, the bed of a lake; the stones which are collected in particular spots, or which are dug up from excavations made to a great depth, consist of quartz, pebbles, rolled stones, and shingle, as if from the bed of a beach; the ridges at either side are like headlands. The Goulbourn Plains form part of a series of alluvial tracts which traverse average elevation of about 2,000 feet above the level of the sea; the Goulbourn and Breadalbane Plains are in the south: the Bathurst, in the west; and the Darling Downs, north.

The Breadalbane Plains are separated leigh, and other places. A description of from those of Goulbourn by a ridge of forest marble is found there, which is said to re- land about eight miles across The plains semble the famous Giallo Antico, of Italy. are situated on the high dividing ground, Near the Wollondilly, a few miles from or waters hid between the waters falling eastward and westward. They have, probably, once been lagoons, of which there are several in the vicinity, viz.—Tarrago, Mutmutbelly, and Wallagorang; the latter is supposed to be the residuum of a lake which probably once covered the Breadalbane plains. In several parts there are what the Americans aptly, but not elegantly, term "saltlicks," on which the cattle depasture with great avidity, and with much benefit. There is a fine tract of pastoral country around these plains, at an elevation of 2,278 feet above the level of the sea. The pasturage has a rich velvet-like appearance. The three open flats or plains are circumscribed by some low hills; they extend for about twelve miles in the direction of the Sydney road, and have an average breadth of two miles.

Lake Bathurst, in this county, about 130 rity; the proposed communication by a miles south-west of Sydney, and sixty miles ınland, from Jervis Bay, is from three to five miles in diameter, and varies in size according to the quantity of water it receives from the torrents on the north-west and south-west-of which it forms the reservoir. The waters are pure—the depth I have not been able to ascertain. Mr. Peter Cunningham speaks of an animal resembling a seal, having been seen in this lake, apparently three feet long, and every now and then appearing above water to "blow." The aborigines call it "Devil-devil," and consider it an evil spirit.

> Marulan, the second town in the county. is situated at the junction of the roads leading to Goulbourn and Bungonia, which latter town stands on a creek of the same name.

> Rivers .- Wollondilly, Cookbundoon, Shoalhaven, and Guinecor. Creeks.—Windellama, Curran, Bangalore, Lerida, Crisps, Mulwarree Ponds, Woorondooronbidge, Kerrowong, Myrtle, and Uringalla. Eminences .-Wayo, Mount Fitton, Towrang, Marulan, Mount Macalister, and Mount Hobbes.

ST. VINCENT COUNTY extends along the seathe eastern part of the colony, and have an shore to the southward of Camdon county. and includes the harbours of Shoalhaven. Jervis bay, and Bateman bay, already described, and is the general coast line of the colony It is bounded on the north and west. which have a length of 120 miles, with a by the Shoalhaven river; and on the south, breadth of thirty to forty miles, are in the by Moodong creek, Deua river, and Moruya river. Its length is about eighty-four miles, and its breadth about forty miles. of this county, is very wild and mountaingeological and mineralogical research.* The southern portion affords the most soil available for cultivation or pasture; although, on Bateman bay, which is its limit on the south, much good soil cannot be expected, as Snapper Island, at the entrance, consists of grev compact quartz only, with white veins of crystalline quartz. On the upper part of the Shoalhaven river, there are many plains admirably adapted for agricultural purposes, the river there resembling an English stream, and flowing nearly on a level with the surface. The county is well watered by several small streams, of which the most considerable, called the Clyde, runs nearly parallel to the sea for a considerable distance.

Towns .- Braidwood is the chief; the others are Huskisson, Ulladulla, Broulee, Narriga, Tianjara, and Farn-Marlow. ham. Rivers .- Shoalhaven, Macleay, Clyde, Deuca, Mongarloo, Moruya, and Crookhaven. Creeks.—Wandagandria, Jervis, Yerrimong, Pigeon-house, Endrick, Jembaic mbene, Congola, and Groobyar. Eminences -Pigeon-house, Currockbilly, Budawang, Womballoway, and Jillamatong.

South and south-west of St. Vincent county there has been recently marked out the counties of Dampier, Beresford, Auckland, Wellesley, Wallace, Cowley, and Buccleuch; but of the boundaries and characteristics of these counties we have as vet little precise information, excepting Auckland, which is described by Mr Wellst as comprehending that portion of New South Wales, bounded by a line running from Cape Howe along the boundary of the district of Port Phillip, to the point where the said boundary crosses the 149th degree of E. long; thence due north along the said 149th degree of E. long, to the lat. of 36° 40'S; thence due east to the sea, and thence south along the sea coast to Cape It is about sixty miles in length, and forty in breadth. It contains the secure

* My own opinion is, that gold will eventually be found there.

The haven of Twofold bay, on the south shore greater, and especially the northern portion of which is situated the rising settlement of Boydtown. This thriving township owes ous; and will probably afford a rich field for its establishment chiefly to Mr. Benjamin Boyd, one of the most enterprising colonists in Australia, who, with his brother, Mark Boyd, of London, has very materially contributed to advance the interests of the colony, and to popularize New South Wales in England. There are two townships. named East Boyd and Eden, separated from each other by the river Kiah or Towamba. Point Brierly, about one mile from each township, is in 37° 6′ 40″ S., 149° 57′ 42″ Twofold bay is the east of Greenwich. chief port of outlet for the south-east districts of New South Wales, and is the key to the extensive Maneroo country, now divided into the several counties above Lieutenant Woore, R.N., who named. made the survey for the Admiralty chart. says that South bay, or that on the shores of which East Boyd stands, has a decided superiority over any other anchorage in Twofold bay, arising from the prevailing and strong winds blowing from the southward. It is more extensive than North bay, where Eden is, and possesses abundance of fresh water, which gives it a further advantage.

Boydtown, under the zealous exertions of its founder, already contains a neat Gothic church, the spire of which is visible twenty miles at sea, a handsome hotel, in the Elizabethean style, ranges of commodious brick stores, well-built houses, and neat verandah cottages; a jetty of several hundred feet in length, and a heaving-down hulk. There is an excellent whaling station, also extensive boiling-down and salt-provision establishments, &c. A light-house, now erecting on the South head, at the entrance of the bay, consists of a tower seventy-six feet in height, with a diameter of twentytwo feet. It is being built of white Sydney sandstone, in solid blocks of nearly half a ton each, and, independent of its light, will prove an excellent land-mark for the shipping which frequently take shelter in the bay, where they can procure, at East Boyd, abundance of provisions, fuel, and water. The produce exported already amounts, in value, to nearly £100,000 a-year. Mr. Benjamın Boyd has, after considerable labour, and at his own cost, constructed a road of forty-five miles, to convey the produce to Boydtown, from the famous squatting district known as the Maneroo plains, or Brisbane downs. The fine sheep-walks of

[†] Geographical Dictionary or Gazetteer of the Australian Colonies. By W. H. Wells. Sydney, 1848. This useful work, which I have but just procured, appears an admirable compilation of facts, collected with great care, and which, judging from the difficulty I have experienced in obtaining correct local information, must have been greatly needed.

Maneroo, which occupy a square of about of remarkable fertility, instances of which to 3,000 feet above the level of the sea, on the right bank of the river Murrumbidgee, lie to the eastward of the meridian of 149°, and extend upwards of forty miles to the southward of the parallel of 36° 15', which appears to be the parallel of their northern the coast-range of hills, which give an intenor or westerly direction to the streams by which these downs are permanently Alps, known here as the Warragong chain.

Towns in Auckland county.—Boyd, Eden, Rivers. - Towamba or Kiah, the Towaca, Merumbal, Bega, Bomballa, and Eminences. - The Wanderer's landmark, being about 3,000 feet above the level of the sea. These natural savannahs consist of a series of undulations of hill and dale, lightly timbered, with a rich soil, and well watered by the Deuna, Shoalhaven, Queanbeyan, Murray, Murrumbidgee, and Mitta-Mitta rivers, are a very favourite residence for squatters, and are capable of yielding support to many thousand inhabitants.

MURRAY COUNTY is bounded on the northeast by the Boro creek, from its junction with the Shoalhaven river to its source in the hill of Wollowalar: by the range thence to the Ahano-yonyiga mountain, between Lake George and Lake Bathurst, and by a watercourse descending from that mountain to Lake George, by the northern shore of its northern extremity, and thence by Gandaroo creek and Yass river to the Murrum- Hill, and One Tree Hill. bidgee; on the west, by the Murrumbidgee river to the junction of Miccaligo creek; on the south, by that creek to the Twins or Tindery Pics, passing between them to the source of Tindery creek, and by that creek to Queanbeyan river, by that river to the creek entering it from the hill called Tumanwong, and by a line from the source of Jerrabatgulla, in that mountain, to the junction of Currabeene creek with the Shoalriver to the junction of Boro creek.

100 miles in extent, and are from 2,000 have been quoted in the description of the general character of the soil of New South Wales; and the oat-grass, before mentioned as growing spontaneously in Argyle, is also found here. A ridge of high land runs north and south through the eastern portion, in a somewhat parallel direction with the skirts. They are bounded on the east by Shoalhaven river, which divides the county of Murray from that of St. Vincent. most remarkable feature in this county is Lake George, which is stated by Sir Thomas watered; and on the west by the Australian Mitchell to have been in 1828 a sheet of water seventeen miles in length, and seven in breadth, the water being slightly brackish, but very good for use. The lake was then surrounded by dead trees (eucalypti) of about two feet in diameter, which also exrange, and Mount Imlay, so named, after tended into it until wholly covered by water. Dr. Imlay, who first explored the adjacent It contained no fish; and an old native This eminence is an excellent female said she remembered when the whole was a forest, a statement supported pro tanto by the dead trees in its bed. In 1836, Sir Thomas found the whole expanse covered with grass, and not unlike Breadalbane Plains. The site of Lake George, as also that of Lake Bathurst, in the adjoining county, is now under cultivation. southern side of this ci-devant lake presents one continuous low ridge, separating its former bed from the head of the Yass river. According to Count Strzelecki, fragments of trees imperfectly fossilized have been discovered in this vicinity.

Towns - Queanbeyan, situated on the Queanbeyan river, Bungendore, Yass, and Larbert. Rivers - Yass, Jingery, and Molongo. Creeks - Morumbateman, Gundaroo, Jerrabombera, Jinglemony, Croonmier, Mod-Lake George to the hill on the dividing bury, Torallo, Majura, and Batmaroo range, by the range in the west overlooking | Elevations.—Mount Ainslie, Bywong, Gourock Pic, the Twins, Cockatoo Hill, Balcombe

KING COUNTY is bounded on the east by the dividing range forming the western boundary of the county of Argyle from the head of the Crookwell river, in 81° 30" S lat., to the head of the Gundaroo creek, near Lake George; on the south by Gundaroo creek and the river Yass to the junction of Derringullen creek near Bowning hill; on the west by the range of Bowning hill to the head of Boorawa river, and by that river haven river, and on the east, by Shoalhaven to its junction with the Lachlan; on the north-east by the rivers Lachlan and the The length of this county is about seventy- | Crookwell to its source, as before mentioned. eight miles; its breadth about forty-four Its length is seventy-six miles, its breadth miles. It contains several extensive tracts forty-three miles. The Cullarin range runs from north to south, dividing this county from that of Argyle. present represented by the thriving little the head of the Crookwell in 34° 30' S. lat., village of Gunning, is situated in a fine flat by Burra-Burra lake and Mount Werong, of considerable extent, very suitable for to the head of Campbell's river; on the growing wheat, barley, oats, potatoes, and north by Campbell's river to Pepper creek: fruit of the British varieties. It is sur- on the west by Pepper creek and the range rounded by a fine tract of grazing country. Gunning is 152 miles from Sydney, and of Rocky Bridge creek, and by that creek nearly midway between Goulbourn and Yass, being distant from each about twenty-eight miles. The latter town, though of no great well to its source as aforesaid. The length extent, (containing about sixty houses,) comprises a portion of two counties, being built on each side of the river Yass, which separates the county of King from that of Argyle. Yass plains or downs are also divided by this stream, whose bed (according to Dr. Lang) is 1,311 feet above the level of the These tracts consist of fine grassy hills, thinly covered with wood, and fertile vales clear of timber. Mr. James says, "there appears no limit to the rich feed for sheep." The country is covered with flocks and herds. Proceeding from Gunning towards Yass plains there is a rapid descent from the higher level of the surrounding country. Dr. Lang estimates this descent at 800 to 1,000 feet. Near Yass, on the Sydney side of the river, is situated the wellbuilt cottages and extensive gardens of the north-east by Cox's river from its junc-Henry and Cornelius O'Brien, and of Hamilton Hume, J.P. Mr. H. O'Brien's grounds are very tastefully laid out. His numerous flocks and herds roam over an "hundred grassy hills," the progeny of a few sheep and cattle with which he sat himself down in the wilderness about twenty Civilization has now reached vears ago. and surrounded him. Like the Antediluvian patriarch Jabel, Mr. O'Brien is considered "the father of such as dwell in tents," alias bark huts, and of such as have cattle and sheep beyond the boundaries of the colony, i.e. squatters. As stated under the head of commerce, Mr. O'Brien, finding the value of his stock wofully reduced by the panic in 1843, commenced the "boiling down" system, and converted his unsaleable live stock into the valuable export of tallow for the English markets.

Rivers.—Yass, Narrawa, Lachlan, Boorowa, Weeho, and Crookwell. Creeks.---Lambton, and Cartwright. and Narrawa.

GEORGIANA COUNTY is bounded on the The county town, at east by the dividing range extending from extending from its head toward the source and the Abercrombie to the river Lachlan: on the south by the Lachlan and the Crookof this county is about fifty miles, and its breadth forty. The surface is irregular and varied, and in general well adapted for grazing, but only occasional patches on the banks of rivers and streams afford much promise of successful agriculture.

Towns.—Not any. The chief place is Bingham. Rivers.—The Abercrombie which rises in a mountain about three miles east of Mount Murrum, and after a course of about ninety miles, falls into the Lachlan: the Campbell, Isabella, Crookwell, and Bolong. Creeks.—Rocky Bridge, Tuena, Kangaroo, Glengarry, Mulgowrie, Julong, Kangaloolah, Phils, Copperhaunia, Muligonnia, Carrawa, and Peppers. Emmences.-Werong and Mount Lawson.

WESTMORELAND COUNTY is bounded on tion with the Wollondilly to the small creek entering the Cox from the west, one mile south of the new road to Bathurst; on the north by that creek and one descending to Solitary creek, near its junction with Antonio's creek, and thence by the Fish river to Campbell's river; on the west by Campbell's river to its source in the dividing range, and by the dividing range of Burra Burra lagoon; on the south by the river Guinecor from Burra-Burra lagoon, to its junction with the Wollondilly; on the east by the Wollondilly to the junction of Cox's river above-mentioned. sixty-four miles; breadth, thirty-two miles. Westmoreland is the most mountainous of the counties of New South Wales, and although the elevations are not of great height, seldom exceeding three to four thousand feet, they are numerous and generally barren. One portion of the Blue Mountains, two miles to the north of Swashfield, Hovell's, Cullaba, Broman, Pudman, Derr- 1s 4,000 feet above the sea. The head of ingullen, Bango, Gundaroo, Jarrawa, Dimond, the Fish river four miles E.S.E. from Eminences. — Mobrin, 18 3,472 feet; Mobrin 18 3,275 feet; Mount Darling, Mundoonen, Chaton, Dixon, a hill near Bunbingle's creek is 3,554 feet; and one in Snake's valley is 3,576 feet.

Westmoreland. Bathurst, is an extensive morass. O'Connell town, near the Fish river, on the borders of Westmoreland and Roxburgh, in O'Connell plains, 115 miles from Sydney, is the chief station in the colony.

Rivers.—Cox, Campbell, Wollondilly, Fish, Kowmung, and Guinecor. Creeks.-Journland, Tonatti, Lacy, Antomo's, Lowther, King, Wiseman, Native-dog, Fish river, and Stouv.

BATHURST COUNTY is bounded on the north-east by the Campbell river, from Pepper creek, and by the Macquarie river to the junction of Lewis's ponds; on the west, by Lewis's ponds creek to Blackman's swamp, and thence to the Canobolas mountains; thence by the Panuara range, and rivulet of the same name, to the Belubula stream, and by that stream to its junction with the Lachlan river; on the south, by the Lachlan river to the Abercrombie and This transalpine country was considered maccessible until 1813. It consists in general of broken table land, in some tree, such as Bathurst plains, which include ridges is unaccountable. 50,000 acres, and are about mneteen miles in length, and of a breadth varying from of Bathurst town four to eight miles, undulating, and with their greater length, occasionally ornamented with fringes of swamp oak. These plains are 2,100 feet above the level of the sea: they are not unlike the Brighton downs, on the summits of some of the elevations, or knolls, are found dangerous quagmires, or

Mounts Collong and Murrum are remark- the colony; its society excellent; its re-There are, however, some fertile sources, as a fine-woolled sheep farming spots and excellent grazing districts in district, considerable; and so salubrious is The Emu valley, ninety- the climate that the first natural death did nine miles from Sydney on the road to not occur until 1826, twelve years after its settlement. Bathurst town, on the banks of the Macquarie river, is in 33°24'30" S. lat., and 149° 29′ 30" E. long., twenty-seven miles and a half north of Government-house. Sydney, and ninety-four and a half W., bearing W. 18° 20' N., eighty-three geogragraphical or ninety-five and a half statute miles, and by the road distant 121 miles The town is flourishing, and has its literary institution. &c.

This county in particular presents remarkable instances of a singular phenomenon observable in various parts of Australia, namely, what would be viewed in a long civilized country as the most striking evidences of former cultivation, the land being laid out in ridges apparently marked by the plough, and with a regularity of intervals which would secure a prize from a Scottish These plough ridges agricultural society. occur always on gentle declivities, where the junction of the Rockybridge creek, also there is a tenacious subsoil with loose superby that creek and the range to the head strata, and are doubtless produced by the of the Pepper creek, and by the creek to action of water; as there are found, even the river Campbell, as first mentioned. The on the tops of mountain ridges, extensive county is in length sixty-five miles, in breadth beds of water-sand and water-gravel, mixed with fragments of shells, presenting the identical appearances observed on the banks of rivers, or upon sea-beaches; but still the places forming extensive downs, without a regularity of the distances in the plough

Excellent limestone is found in the vicinity

Mr. W. H Wells, the able compiler of the Macquarie river meandering throughout the Geographical Gazetteer of the Australian Colonies, describes a "magnificent" natural tunnel or archway, discovered by Mr. Davidson not long since, forty-five miles west of Bathurst town, on the Grove creek, about but with this remarkable peculiarity, that four miles above the confluence of that stream with the Abercrombie, and seven miles from Mulgunia. The tunnel is, in bogs, resembling sometimes the dry bed of length, about 300 paces; the north entrance a pond, but at other times concealed by rich is seventy feet broad and fifty feet high; verdure. "Fairy rings" are frequent, and towards the centre the breadth increases to on most of them grow fungi of a large size. ninety feet, and the elevation to 100 feet; With the exception of small portions of at the southern extremity it is about 100 land in particular localities, allotted to vete- feet broad, and seventy to eighty feet high; ran soldiers and emancipists, the county is the whole direction not exactly straight. parcelled out into large farms of 2,000 acres. The roof is thickly covered with stalactites each; the proprietors being free emigrants of different colours, some hanging down to of a very superior class. Bathurst county a length of twenty feet. The sides of the is one of the most flourishing districts in tunnel, especially on the left hand, have the appearance of galleries raised one over the cavern, gives somewhat the appearance of other, supported by apparent carved work a vast Hundoo idol. Some of the caves and ornamental pillars, the whole adorned have not been fully explored The osseous fully explored, branch out of the main stalagmites, resembling a pulpit and a tomb. The descent to the tunnel is through a very narrow defile, through which a creek flows direct through the main chamber of the cave.

Towns.—Bathurst, before mentioned, and Carcoar, 144 miles from Sydney, on the Belubulu river. Rivers - Macquarie, Campbell, Belubulu, Abercrombie, and Lachlan Creeks.—Rockybridge, Frederick's valley, Emu swamp, Peppers, Queen, and Princess Charlotte's vale; Foster ditto, Swallow, Coombul, Coombing, Lewis ponds, Cadiangullong, Muramer, Mundoraman ponds, Milburn, Grubbenburn, Muringulla, Limestone Wangola, and Panuara. Plains -Bathurst, Warwick, King's, Dunn's, and Pretty plains. Eminences — Canobolas, and the Three Brothers.

Wellington County, north-west of Bathurst, is bounded on the north-east by the river Cudgegong; on the north-west by that river and the Macquarie, to the junction of the river Bell, near Wellington valley; on the west by the rivers Bell, Molong, and Borenore creek, to the Canobolas mountains; on the east by this range, and thence to Blackman's swamp, and by Lewis ponds, the Umbiella creek, to Mount Durambang. Macquarie, Turon river, Cunningham's creek, and Cudgegong creek, under Bocobel, to the Cudgegong river. It is, in length, seventy-two miles, and in breadth forty-two This county is famed for a beautiful and fertile valley, (Wellington valley), situated at the junction of the Bell and Macquarie rivers, distant 238 miles from Sydney, and 117 from Bathurst. The scenery is very charming, and the soil richly productary, Jabez-Jabeck, Winburdale, Cunning-In this county, as stated at pages ham's, and Mallamurra. 398-9, Sir T. Mitchell discovered some remarkable caves in the side of a low hill, sixty-five feet above the adjacent alluvial forty miles, and also from the Honeysuckle flat of Wellington valley. The entrance hill, on the Bathurst road, forty miles disconsists of two crevices, between large tant: hence this elevation became a wellblocks of limestone, in one side of a hollow known point in the trigonometrical survey about twelve feet deep, and which has evi- by Sir Thomas Mitchell, of the settled disdently been widened by water. One of the tricts in New South Wales. The other caves, at 180 feet from its mouth, has a eminences are Mounts Rankin, Ovens, Clanheight of sixty feet, and a breadth of twenty- dulla, or Marsden. five feet: the floor consists of reddish earth. A gigantic stalactite, at the lower end of the is bounded on the north-east by the Colo

by splendid stalagmites of various forms, remains found in these caves are very re-Other caverns of great extent, but not yet markable; some of the fossilized bones are supposed, by Professor Owen, to have betunnel; one of them contains two massive longed to a very large species of the kangaroo tribe, which is now extinct. Mudgee, the chief town of the county, is pleasingly situated on the Cudgegong river Another township, called Neurea, has been laid out.

Rivers - The Macquarie, (which runs through the county), the Cudgegong, Bell, Molong, and Turon Creeks .- Cunningham, Meroo, Pyramul, Nubrygin, M'Donald, Piambong, Merrenda, and Warradugga. Eminences — Two ridges of mountains run from east to west, of which the most prominent elevations are Corcalgong, Bocobel,

Boiga, and Yammin

ROXBURGH COUNTY, north of Bathurst and Westmoreland counties, is bounded on the north by the Cudgegong river from the Mount Durambang, by Canguddy creek, to the junction of Cudgegong creek, on the east of Mount Bocobel, on the west by that creek, by Cunningham's creek, and by the Turon river to the Macquarie river, which latter, along with the Fish river, to the junction of Solitary creek, forms the southern boundary; on the east by Solitary creek to Honeysuckle hill, and thence by the dividing range to the head of Cook's creek, and by the creek and the Cudgegong river and Length, fifty miles; breadth, forty miles. The county is very hilly, but has rich pasturage, some fertile spots, and is well Chief town-Kelso, on the Macwatered quarie river, 112 miles from Sydney.

Rwers. — Macquarie, Cudgegong, Fish, aron, and Capertee. Creeks — Warra-Turon, and Capertee. gunnie, Tabraboucha, Umbiella, Cook's, Coolamigel, Roundswamp, Antonios, Soli-Eminences.— Tayan Pic, which is visible from the Wollombi hills, in Northumberland, distant

COOK COUNTY, adjoining Cumberland,

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a considerable portion of the county. Emu was first cleared and burned, chasms were plains, and several fertile valleys, compen- filled by immense masses of blasted rock; of rocky soil in this county. At King's a height of fifty to eighty feet, connected table land (2,727 feet above the sea) the one precipice with another, and preserved a view is magnificent; for eighteen miles from continuous or gradual scale of declivity; a the commencement of the ascent of the defile was cut through the solid rock, of gradual; from thence to the twenty-sixth 1832, the Victoria Pass was opened to the mile is a succession of steep and rugged public, in due form, by the governor, Sir R. hills, some almost so abrupt as to deny a Bourke. passage across them to King's Table Land. on the south-west of which the mountain Sydney, the chief town, is built on the west terminates in lofty precipices, at whose base is seen the beautiful Prince Regent's glen, Emu, Wilberforce, Bowenfels, Rydal, and about twenty-four miles in length. From Colo. Emu township, thirty-five miles from Mount York (3,292 feet high) the view is mag. Sydney, is laid out on the rising ground of nificent-mountains rising beyond moun- Emu plains, behind the government farm, tains, clothed with impenetrable forests, with on the banks of the Nepean. The seat of stupendous masses of rock, forming but- Edenglassie, (called by Sir Francis Forbes, tresses, in the foreground. The Vale of the late chief justice of New South Wales, Clywd, so called from its resemblance to a after the family seat in Aberdeenshire, North vale of the same name in North Wales, Britain, of the lamented Sir Charles Forbes, Britain, is 2,496 feet above the sea, and Bart.,) is about two miles up the river, on a runs along the foot of Mount York, 796 feet fine reach, capable, says Mr. Wells, of below the summit of the mountain, extend- "floating a dozen men-of-war." Rivers. ing six miles in a westerly direction. The Grose, Colo, Cox, Nepean, Hawkesbury, soil is rich, and the scenery very beautiful. Lett, and Warragamba. Creeks.-Wheeny, In the valley, near the inn called the Wea-Meroo, Billong, Currency, Wollinganby, ther-boarded Hut, on the road to Bathurst, Bowen, Wolgan, Farmer, and Cook. Emithere is a line of perpendicular cliffs, of nences.—the Blue mountains, Honeysuckle immense height, which has a small cataract hill, Mounts Walker, Clarence, Victoria, termed the Falls. At the point where the Tomah, King George, and Hay. rivulet leaps over the precipice, the cliffs Northumberland County, recede considerably, forming, according to venes between Hunter county and the sea, Lang, two bold headlands of fearful eleva- is one of the finest in the colony; it is tion, and enclosing a basin of prodigious bounded on the north by the river Hunter, depth, in which the tops of lofty trees are and on the south by the Hawkesbury, to

river, which is also called the second or pice. When the rivulet is flooded, the lower branch of the Hawkesbury; on the scene is magnificent; in other seasons, the north by the rocky dividing range, extending waters are separated into distinct atoms. east and west, between the rivers Hunter and are precipitated to the bottom like innuand Hawkesbury, and forming the south merable particles of frozen snow. The great boundary of the county of Hunter; on the western road from Sydney to Bathurst, over west by the range dividing the waters to Mount Victoria, was originally very imper-Honeysuckle hill; and hence to where the fect and steep. According to the design of Mount Blaxland road crosses Cox's river; the surveyor-general, Mitchell, in 1827-8, on the south-west by Cox's river; on the recommended by a road commission in east by the Warragamba, Nepean, and 1829, a new line over the Blue mountains Hawkesbury, to the junction of the lower was commenced in 1830, and three gangs branch, as above mentioned; it is in length of convicts, consisting of 250 prisoners, sixty miles, and in breadth forty-four miles. under colonial or secondary sentences, with A great part of Cook county is occupied ankle fetters of seven to ten pounds each, by the Blue Mountain range, across which were located near the intended road, in the fine road from Sydney to Bathurst hes, a stockade prepared for the purpose, with Table land, from 2,000 to 3,000 feet high, buts around for a guard of soldiers. The abounding in picturesque scenery, occupies dense forest that covered the projected road sate, in some measure, for the large quantity and walls of extraordinary thickness, and of Blue mountains at Emu plains, the slope is twenty to thirty feet deep; and finally, in

Towns.—Hartley, seventy-eight miles from bank of the river Lett, the other towns are

NORTHUMBERLAND COUNTY, which interseen several hundred feet below the preci- the sea-coast, which forms the eastern

boundary; and on the west by Wollombi tory, some excellent shops, thirty-seven brook, the junction of Parson's creek, by that creek to its head in the range dividing the waters of the Hawkesbury from those of the Hunter, by Warring creek, to its junction with the Macdonald river, or lower branch of the Hawkesbury, and by the said lower branch to its junction with that river. The length is sixty-one miles, breadth fifty. There are some fine elevations, commanding extensive prospects; but the general aspect is a series of undulations and elevated plains, intersected by numerous creeks, streams, The river Hunter affords a and rivulets. means of water communication throughout its northern boundary, and along its alluvial banks, some of the most flourishing farms and estates in the colony are situate. ramalong is a beautiful vale, distant twenty miles from Brisbane water, and watered by the Jilliby-Jilliby creek. Lake Macquarie, or Awaba, twelve miles south of Newcastle, is the largest lake in New South Wales, and famed for the beauty of the surrounding The entrance is at the head of "Reid's Mistake," distant 105 miles from Sydney. Newcastle (native name Mulubinha), in 32° 55′ 50″ S., about eighty miles from Port Jackson, is the maritime town of the county, and fast rising into eminence, not less by reason of its position at the commencement of the navigation of the Hunter, than from the locality of the coal mines, now actively worked by the Australian Agricultural company. Maitland, on the Hunter river, at its junction with Wallis creek, 127 miles from Sydney, and twenty-five miles from Newcastle, is the seat of the county executive, and a neat and flourishing settlement The town is divided into East and West Maitland, built on each side of Wallis creek There is a spacious court-house, a large gaol, several church of England, Presbyterian, Wesleyan, and Roman catholic temples of worship. The Roman catholic chapel better supplied with water than West Mait-Coal, of excellent quality, is worked on both sides of Wallis creek, and delivered to the consumer at six shillings per ton.

Morpeth, originally called the Green hills, is a rising town, picturesquely situated at the head of the navigable part of the Hunter river, twenty-nine miles by water from Newcastle. It contained, in 1848, a church and parsonage, a Wesleyan chapel, a ladies' school, and two day schools; five inns, a son's creeks, and the Wollombi creek, to steam flour-mill, soap and candle manufac- its junction with the Hunter river. Length,

stone and brick buildings, and 117 wooden tenements. The extensive wharf and stores of the Hunter River Steam Navigation Company are at Morpeth, and throughout the greater part of the year there is a daily steam-packet communication with Sydney, with which also there is a considerable trade in sailing vessels. About two acres on the bank of the Hunter river are used as a government wharf. Good coal is found in the vicinity. Morpeth, like Boyd, and other towns in New South Wales, is built on land belonging to private individuals, who naturally seek to improve the value of their property by promoting the formation of towns in eligible places.

The extraordinary progress of the colony of New South Wales is evidenced in the manufacturing industry evinced in many of the towns. In Maitland, for instance, we are told, that—

"Porter and ale of excellent quality are now brewed there. The Irrawang pottery is so good, that the demand greatly exceeds what can be produced, from the paucity of good workmen. Tweed is im-proved so much, that it sells in Sydney to such an extent that the district market is often very inadequately supplied, though two establishments are in active operation. The tobacco manufactured in Maitland and the district is nearly all sold in Sydney, and the demand for it is gradually increasing The growth of the vine is greatly extending, though but little wine has been yet brought into market, manifest improvement is however visible in what is brought forward. Leather and soap are produced to a great extent, and of excellent quality. Iron, salt, and a variety of other articles, are rapidly improving."

The Maitland Mercury, published biweekly, is an excellent provincial newspaper. Towns.-Newcastle, Maitland, Singleton,

Vorpeth, Wollombi, Hexham, East and West Gosford, and St. Alban's. Lakes .-Macquarie, Brisbane Water, Tuggerah Beach, and Wamberall.

HUNTER COUNTY, north of Cook county, and separated from the sea by Northumberis a handsome structure. East Maitland is land county, is bounded on the north by the river Hunter, and also by the Goulbourn to the junction of Widdin creek; on the west, by Widdin creek to the Coricudgy mountain, by the range thence to the Durambang hill; on the south, by the Colo river to the Hawkesbury river; on the east, by the Hawkesbury to the north of the Macdonald river, or lower branch; and on the northeast, by the Macdonald river to the junction of Wareng creek, and by Wareng and Parfrom north to south, seventy-one miles; thence to the Krui river; on the west by the breadth, east to west, forty-seven miles.

The aspect is mountainous, and occasionthe plains in which it is situated, Jerry's, is on the Hunter river, 122 miles from Sydney.

Rivers. - Hunter, Goulbourn, Macdonald, Wollombi, and Colo. Creeks.—Webb's, Parson's, Wollum, Putty, Widdin, James, King, Greig, and Doyle. Eminences.—Nullo, Coricudgy, Monundilla, and Wambo.

PHILLIP COUNTY is bounded on the north by the river Goulbourn, from its source, near the head of Wialdrar creek, to the junction of Widdin creek; on the north-west, by the Cudgegong river, from its source, at Mount Durambang, to Wialdrar creek. Its length is fifty-three miles, and its breadth forty-one miles. Rytstone is the chief place.

Rivers.—Goulbourn, and the Cudgegong. Creeks - Widdin, Cooyal, Pipeclay, Lawson, Moorlarben, Wilpingong, Bylong, Barrigan, and Wollar. Eminences - Pomary, Runker's Peak, Cox's Crown, and Mount Penny; but these are only hills of inconsiderable height.

BLIGH COUNTY, bounded on the north by the Liverpool range from Mount Mac Arthur to the head of Coolaburragundy river, by this and the Talbragar river to the junction of a small creek two miles east of Balara; on the west by a connected ridge extending from the head of the creek aforesaid to a sixty miles; breadth, fifty miles. hill five miles north of the junction of the Bell with the Macquarie river, and thence by a line south to the Macquarie; on the south-west by the Macquarie to the junction of the Cudgegong river, and on the southeast by the Cudgegong river; and Wialdrar creek, to the source of the latter in the dividing range at the head of the Goulbourn river, thence by the Goulbourn and Krui river to Mount Mac Arthur or Liverpool range. Length, about eighty miles, breadth, forty There are several rich plains, viz, Harrison's, Krui, Nandoura, and Wellington valley, the most prominent mountains are Mooa, East Bluff, Pandora's Pass, and Gobalion Ailsa, on the Krui river, is the county town, the others are Dalkeith and Montefiores

Rivers .- Macquarie, Goulbourn, Talbragar, Erskine, Krui, and Cudgegong. Creeks .-Coolaburragundy, Teerce, Four Mile, Cookabulgo, Munmurra, Peters, Derrinderry, Stony, Krui, Moons, and Wildra.

north-east by Hunter river, from its source fingers of clasped hands." These ridges are in lat. 31° 46', to the Goulbourn river, and thinly wooded, and government has preserved

Krui river to its source at Mount Mac Arthur or Moan in the Liverpool range: on ally very wild. The chief town, called after the north-west by the Tinagroo and Temi mountains to the head of the Hunter river. Length, ninety miles; breadth, forty miles. The aspect of the county consists of several ranges of table-land, with occasional plains and peaks; one, Mount Wingen, or the Burning Mountain, in 31° 54' S. lat. and 150° 56' E. long., described in the Geological section, has an elevation of 1,500 feet above the sea.

Towns.-Murrurundi, chief, on Page's river; Haydonton, Scone, Merriwa, Cassilis, Invermein, and St. Aubin's. Rivers.—Goulbourn, Hunter, Page, Isis, Krui, and Werrenul. Creeks .- Krui, Moon, Coulson's, Bow, Gummum, Hall, Giant, Wavbong, Dartbrook, and Kingdon. Plains .-Bow, Krui, Gummum or Gammon Plains, 150 miles from Sydney. Eminences -Mount Tinagroo, Tereil, Murulla, Oxley's peak, and Tomarra,

DURHAM COUNTY is bounded on the east by the Williams river to its source, and thence by the Mount Royal range to the head of one of the branches of the Hunter river in lat. 31° 46', and by that river on the west and south to the junction of William's river above-mentioned. Length, and well watered The fine district of Patrick's plains includes the middle portion of Durham county, the north-east portion of Hunter county, and the north-west portion of Northumberland county. Paterson, the county town, is situated on the river of the same name, distant 130 miles from Sydney. Other towns-Muswellbrook, Seaham, Clarencetown, Dungog, Hinton, Gresford, Merton, and Camberwell.

Rivers — Hunter, Williams, Patterson, Allyn, and Bouchell. Creeks .- Stewartsbrook, Sandy, Muswell, Saltwater, Fay, Fall, Carrow, West, Glendon, Myall, and Lamb-valley. Eminences.—Mounts Royal, Wollen, M'Arthur, Drying, and Tangorin.

Dungog, one of the towns or villages in Durham county, is noted for its position and prosperity. It is situated on the banks or William's river, a considerable way below the Chichester river, both of which streams are famed for their clearness and purity. The village covers a succession of ridges which BRISBANE COUNTY is bounded on the are said to "fall into one another like the ample space for promenade and circular contracted near the centre to the breadth of pleasure-grounds near the beautiful reaches a mile, and subsequently further lessened by and bends of the river. two schools, two large inns, a steam flour- estuary, on the west shore of the harbour, mill court-house, horse-barrack, horse-break is the town of Carrington, belonging to the ing and training stables, boiling-down estab- Australian Agricultural Company; and halflishments. several good dwelling-houses and a-mile to the westward is Taklu, the charmneat farms in the vicinity; a cheerful peal ing residence of the superintendent, situof church bells, and a band of rustic mu- ated on the crest of a green grassy slope, says Mr. Wells, "to the other, the voice of bushy lemon-trees, the deep verdure of their children and the hum of industry fall upon foliage interspersed with golden fruit, conthe ear." The country around is wildly trasting with the light-green carpet from

picturesque.

GLOUCESTER COUNTY, bounded on the west William's river to its source, and thence by the Mount Royal range bounding the county of Durham to the principal source of the Manning river; on the north by the Manpurposes. At the entrance of Port Hunter or Newcastle bay, there is a small but rather lofty island, called Nobby's Island, some-Bass Rock on the coasts of Scotland, apparently composed of indurated clay supportrest on a substratum of silicious substance. The indurated clay consists of thin laminæ. into which it may be easily separated with a knife, and which present innumerable impressions of vegetables. Dr. Lang says-"I have seen such impressions in specimens of the clay obtained at a height of fifty to a hundred feet above the level of the sea. It appears indeed to consist of nothing else but masses of vegetable matter, which, at some former period in the history of the earth, must have floated in a solution of clay Nobby's island has evidently been originally joined to the mainland; the intervening channel to the southward being still narrow, shallow, and rocky, and the successive strata of which it is composed corresponding with those of the main.'

The features of the coast about Port Stephens are different from those seen to the southward. A number of conical hills, four entrance points of Port Stephens-which is sufficient scope of rich alluvial soil on the a large estuary, fifteen miles in length, and

There is a church, a woody islet. Nearly two miles within the "From one end of the town," over which are scattered numerous small

which they sprang *

The estate of the Australian Agricultural by the Hunter river, on the south-west by Company in New South Wales, comprises an area of upwards of a million of acres, and consists of three separate extensive tracts. situated about 100 miles north of Sydney. between the 32nd and 33rd parallels of south ning river to Farquhar inlet, south-east by latitude, approached by the fine harbour of the sea-coast. Length, eighty miles, breadth, Port Stephens, which forms its southern sixty-five miles. The northern parts of the boundary. The southernmost of these tracts county are mountainous, but there is much is designated the Port Stephens grant; good land both for grazing and agricultural north-west of Port Stephens is the Liverpool Plains grant; and the north-east of Liverpool plains is the Peel's River grant. The Port Stephen's grant is estimated to what resembling the Craig of Ailsa, or the contain 464,640 acres, and to extend between twenty and thirty miles inland from the sea coast; bounded on the north by the "Maning a stratum of sandstone, over which there ning," a river of comparative magnitude, is a stratum of coal, the clay appearing to commencing a little above the head of the navigation, and extending inward or westward twenty miles; on the west by a line south, separating the company's lands from those reserved by the crown for ecclesiastical and educational purposes; on the east by a parallel line separating the same from the crown lands; and on the south by the Karuah river and Port Stephens, a harbour second only to that of Sydney or Port Jackson on the eastern coast of New Holland. The general appearance of the land is hilly, with well-watered valleys, of good soil and pasture, and with abundance of the best description of timber, for building, fencing, and rural purposes generally. The character of the soils necessarily varies with the formation, but they are all capable of growing grain, (maize and millet luxuriantly,) tobacco and cotton, the vine, olive, orange, and citron, and almost every variety of fruits, even to the banana, which flourishes in sheltered to six hundred feet high, are visible; two of situations, and within the influence of the them-Wacaba and Tomare, constitute the sea air. The valleys, though narrow, afford

* Stokes's Voyage in H.M.S. Beagle.

banks of the streams for all the purposes of agriculture; the receding and higher lands being well calculated for arboriculture and vineyards; whilst the loftier ranges are clothed with a short, sweet, and nourishing grass, for the pasturage of sheep or cattle-and it is remarkable that the wool produced from the Company's sheep depastured on those hills near the coast, has invariably, from its fineness of texture, realised nearly sixpence per pound more than that produced from a similar breed of sheep fed in the interior, where the grass A considerable portion of is more rank. the lands in this county belonging to the Australian Agricultural Company is of excellent quality, and has been rendered very valuable by the well-directed labour and capital bestowed upon it. Count Strzelecki thus expresses himself concerning the agricultural capabilities of this part of New South Wales and the progress of cultivation:

" That portion of the country which, from its system of working, and range of tillable land, deserves to be included within the agricultural district, is confined to the valley of the Karua, which is limited in the extent of its cultivated, but not of its cultivable land, and of which the best tracts are in the possession of the Australian Agricultural Company; to the valley of the Hunter, composed of the confluent valleys of the Goulbourn, Pages, Patterson, and Williams rivers, &c.; the valley of the Parramatta. In these localities, a good many farms are in a very forward state, many exhibit remarkable improvements, and some display only partial attempts, all of which are, however, in the right direction The farms of the Australian Agricultural Company at Stroud and Booral, the most northern farms of the colony, may be regarded as the first in the rank of improve-ments. The farm buildings are of the best construction; the tilled lands are almost entirely clear of timber and stumps, well fenced in, well ploughed and worked, and presenting, on the whole, gratifying proofs of well-bestowed capital and labour.

"The orchards and vineyards of the company at Tahlee (Port Stephens), which produce the choicest grapes, oranges, and lemons, are not less worthy of notice. It is this orchard which shews most forcibly the extensive range which the beautiful climate of New South Wales embraces in isothermal lines; as there the English oak is seen flourishing by the side of the banana, which is again surrounded by vines, lemon and orange trees of luxurious growth. To the southward of Port Stephens are a series of thriving farms, spreading along the Goulbourn, Pages, Hunter, Patterson, and Williams rivers, which comprise an agricultural district of 2,000 square miles in extent. The excellent harbour of Newcastle (in Northumberland county), good water and tolerable roads, a coal mine, a soil well adapted for wheat, barley, turnips; the vine and European fruits, and a situation the most favourable to the application of irrigation, render this district one of the richest and most important in the colony."

The little river Karuah, flowing into the • Geographical Gazs north-west corner of Port Stephens, is p. 184. Sydney, 1848.

navigable for twelve miles, to a place called Booral, where all goods are landed for the Company's stations up the country. Mr. Ebsworth, the treasurer, resides there in a charming cottage almost covered with roses and honeysuckle, and commanding two picturesque reaches of the Karuah. To this gentleman, and to his cousin, Mr. Henry Ebsworth, many years the faithful secretary of the Australian Agricultural Company, great credit is due for the careful superintendence evidenced in the practical working of the judicious and equitable system adopted by this association. Near the town of Gloucester in this county, is an abrupt range of densely wooded hills, called the "Buckets," which rise to a height of about 1,200 feet above the plain, their summits crowned by precipitous masses of naked rock of fantastic contour, not unlike the castled crags of the Rhine. The situation of Gloucester village is very picturesque; it is a large cattle farm belonging to the Aus-The village tralian Agricultural Company. of Stroud, not far distant, is a horse-station of the company: its English character is exemplified by the neat little gardens belonging to the mechanics in the service of the Austrahan Agricultural Company, and by the cottages covered with roses and honeysuckle.

On the crest of a range of hills in this county, overlooking some wooded lands belonging to the church of England, a singular natural phenomenon has been lately discovered · the front of the line of hills "strikingly resembles the ruins of a fortress: the masses of rent rock are dotted with vast balls, half fixed, and of the exact size of cannon balls: they are easily displaced, leaving a socket, as if they had originally been plunged there by artillery. The balls are very heavy, of a sparkling granite, surrounded in the centre by a white flimsy circle, which it was found impossible to chip." * Specimens of these balls have been sent to the British Museum and to the Geological Society of London.

Towns.—Raymond Terrace (the chief); Carrington, on Port Stephen's harbour; and Stroud, on the Karuah river. Rivers.—Manning, Williams, Chichester, Gloucester, Barrington, and Karuah. Creeks.—Tilligerry, Serpent, Limeburners, Onall, Pipeclay, and M'Arthur's. Eminences.—Mounts Tallowah and Kanghat.

Geographical Gazetteer, by W. H. Wells, Esq.,
 p. 184. Sydney, 1848.

MACQUARIE COUNTY is bounded on the Hastings river, is a very thickly wooded south by Manning river, from Farquhar's undulating country, tolerably grassy, and inlet to its confluence with the Barnard intersected by moist tea-tree flats and sedgy river; on the west by a line from the said hollows. The country at the junction of confluence to Mount Sea-view, and thence the Hastings with the Maria river, has a by a line to Kippara, a pass in the range fine appearance, as the reaches of the Hasdividing the waters of the M'Leay river tings are of great length, and have an unifrom the waters of the Wilson river; on the form breadth of about a quarter of a mile. north by that range to the source of the The handsome villa of Dr. Carlsle is on south branch of the Maria river, and thence the right bank, and on the left, a pretty by that stream to the first section line in cottage with a flourishing garden of vines the parish of Kalateenee, west of the east and fruit trees. The Three Brothers rise boundary of that parish, thence by that majestically near Indian head, their lofty section line to the M Leav river; on the summits overtop all the woody heights by north-west, by the M'Leay river to its which they are encircled, and command an mouth, inclusive of the islands; and on the extensive inland, as well as a broad sea east, by the sea coast, which is picturesquely view. marked by Crescent head, Point Plomer, Tacking point, Indian and Crowdy heads. lat. 31° 25′ 45" S.), the county town and The general features of the county are hill the most important north of Martland, 18 and dale, with open forest or grass land, situated within the harbour on the south lightly covered with good timber, and free side of the Hastings river, and divided into from mundations. Captain King, speaking East and West Macquarie, by Coolenbang of this county and the adjacent districts, creek. It is a harbour into which vessels says, "there are here twelve million acres, drawing more than nine feet of water canin which it is difficult to find a bad tract, not safely enter; but there is good anchoand they are in general watered with clear small streams." There are several elevated mountains in the county, viz.—the Three Brothers, Cairneross, Comboyne, Cocomerico or Mount Sea-view, Kippara, Colapotamba, and the Brokenbago range, which that of the Manning river, and is covered plains; those called the "Jamaica plains," fortress. Between the Wilson and the low hue.

Port Macquarie (278 miles from Sydney, rage outside, and the shore is not dangerous. The town is well built, on a gentle rise, the houses generally of brick, surrounded by neat verandahs and trellice work; the streets broad, straight, coated with dark red gravel, and levelled like garden walks. A latter divides the basin of the Hastings from tall square church tower is conspicuously prominent in the highest part of the town. all over with a dense forest. On the highest A group of magnificent trees encircles Port summit of this range, a tall pinnacle of Macquarie, and extends along the banks of the naked rock shoots up perpendicularly above river; to the west and north-west is a wide exthe trees like a church steeple. In some tent of forest country, and among the mounparts of the county, for instance, to the north tain ranges may be traced the windings of the of the river Manning, there are extensive valley through which the Wilson river flows. Mount Caoulapatamba is sufficiently near have an intensely green verdure, as con- to render visible every tree on its grassy trasted with the more yellow tinted green declivities, whilst the distant ranges at the of the grassy forest hills. Some large flats M'Leay river, and the huge frowning mounare covered with high grass, and timbered tain at the back of Cogo, are half dissolved by large blue gum and "tea trees," standing in blue ether. The beauty and fertility of widely apart from each other. At the the land in this vicinity has been noted junction of the Manning with the Glouces- by several writers, especially the luxuriant ter river, the scenery consists of ranges of vegetation of the coast, when approachhills either very lightly wooded and grassy, ing Port Macquarie; dense thickets of or else covered over with brush timber and cabbage palms and myrtle trees extend entangled vegetation. Most of the park- down the gently sloping declivities, even like hills have rounded conical summits; within reach of the ocean spray, and every one heavily wooded range on the south bank unwooded patch is covered with grass. The of the river is crowned by huge masses of rock lofty forest, too, rises luxuriantly close to overgrown with creepers, which resemble the sea, and the tints of the rocks, the the ivy-clothed battlements of some ancient foliage, the verdure, are all of a warm mel-

and Maria-Ville. Kempsey village, at the termination of the north boundary of Macquarie county, twenty-eight miles from the mouth of M'Leay river, has several good brick-built cottages, an inn, store, &c. A fine garden here, belonging to Mr. Sullivan, has fruit trees of all descriptions in greater luxuriance than is to be seen in any other part of the colony. The land in this neighbourhood yields good crops of wheat in dry seasons, and maize at the rate of 75 to 100 One farm, belonging bushels per acre. partly to Mr. Hodgkinson, which had been under the plough for six years, yielded two crops annually - maize, followed by either wheat, potatoes, sugar-loaf cabbages, or Swede turnips. The crops of cabbages and turnips cultivated for the pigs, were twice as abundant as good crops in England. Potatoes were large, but had an earthy flavour.

The principal agricultural farms in the county of Macquarie, are situated on the banks of the Wilson river—a tributary of the Hastings, and a never-failing stream flowing through a narrow valley; -they now form a continuous chain for about fifteen miles, and a very good road connects the whole of them with the town of Ballengarra, where the Wilson river becomes navigable for boats about twenty miles distant, by water, from the town of Port Macquarie. These farms are all composed of alluvial soil of excellent

quality.*

On the banks of the M'Leay river, on the northern frontier of Macquarie county, the alluvial brushes which prevail on the lower part of the stream, are superseded where the stream ceases to feel the influence of the tide, by park-like forest ground, verdant rocky eminences, and luxuriant grassy flats of the greatest richness, lightly timbered with apple-trees (so called by the colonists, from the resemblance of the foliage to the English fruit-tree of that name; the tree is the angophora lanceolata), whose gnarled branches and light green foliage, render it the most picturesque forest tree in Australia. Several small tributary streams join the upper course of the M'Leay; from the South Dongai creek, whose narrow valley consists of a border of alluvial flats covered with broad-bladed grass growing breast high,

The other towns are Hay, Ballengarra, and with a few large blue gum trees scattered so far apart as to offer no impediment to immediate tillage, which is carried on here by the squatters. Dongai creek is hemmed in on both sides by fertile ranges well clothed with grass, and lightly wooded; the scenery is described as very pleasing; the ranges rise in smooth round cones, and their sloping sides, covered with bright green verdure, contrast strongly with the dark glistering green of the brush vegetation, which occasionally invades some of the hills. stream itself, says Mr. Hodgkinson, is of crystal brightness; it rushes rapidly through the glen, over a bed of large pebbles, and frequently forms diminutive cascades; "this, with the magnificent trees and beautiful flowering creepers, forming natural arches, with a glimpse of distant hills softened and blended with the deep azure of an Austrahan sky, cannot fail of affording gratification to any one who can admire nature unadorned by art."

Rivers .- Hastings, Wilson, Maria, Manning, Brumo, Ellenborough, and Forbes. Creeks. — Tymbank, Piper's, Limeburner's, Pappinburra, Limestone, Koolobungan, Kindee, and Cathie. Lakes.—Many, but of small extent; principal—the Innes, Queen's,

Watson, and Taylor.

The climate of this division of New South Wales is said to be more agreeable than that of Sydney; the mountains approach nearer to the coast, collect the vapours from the sea, and cause more frequent rains; in summer, especially, the heat is mitigated by many heavy thunder showers. It is almost entirely exempt from the hot winds, which are frequent during the summer months, in the more southern parts of the colony; moreover, the north-eastern part of New South Wales, between the great main range dividing the eastern and western waters and the ocean, has never experienced the long droughts which appear to occur septennially in the central and western districts. The greatest drought experienced in the Port Macquarie neighbourhood, was in 1841-2, when the natural grasses were quite desiccated, and the whole country continually in flames, the only young grass for the cattle and the sheet being in the flats; but the water-co were as full of water as ever; and the wheat crops-which had failed near Sydneyyielded abundantly on the alluvial farms on the banks of Wilson's river—in some places averaging forty bushels of sixty-five pounds each, to the acre.

^{*} Hodgkinson's Australia from Port Macquarie to Moreton Bay: to which work I am indebted for much recent information concerning the topography of this portion of the country.

From Moreton Bay to the Manning river, Bellengen river from its tributary Odalberree. the southern boundary of the county of This range is composed of soft micaceous Macquarie, a distance of about 270 miles talc, coated with a deep soil, and covered on along the coast, there are nine rivers, viz.— the summit and steep slopes, with luxuriant the Brisbane, Tweed, Richmond, Clarence, grass. For twenty miles the summit of this Bellengen, M'Leay, Hastings, Camden Haven razor-back rudge was found too difficult for creek, and the Manning. Dr. Lang, speak- riding, the undulations being too steep and ing of this region, which he terms Cooks- frequent. From the top was seen the narland, says, "I can fearlessly challenge any row glen of the Bellengen river, immediately European geographer to point to any tract opposite to which, on the north side of the of country of equal extent, and within the river, rises a gigantic range of about 5,000 same parallels of latitude, in either hemi- feet high, with perpendicular buttresses of sphere, on the coast of which there is a 3,000 feet elevation. greater number, either of streams of water, range is a level table land, broken near the or of rivers available for inland navigation."

proclaimed (see map of New South Wales). to the northward and eastward of Macquarie there is much alluvial land, with brush, cedar county, but of these I can obtain no de-plains, and forest flats. The richness of the tails; some description of the rivers flowing soil may be judged of by the great size of through this tract of country, viz. — the the cedar and rosewood trees on its banks. M'Leay, Nambucca, Bellengen, Clarence, The casuarina also grows to such an unand Richmond rivers, will be found at p. common height, and the foliage assumes range dividing the basin of the M'Leay river mistaken for a species of pine. On the from that of the Nambucca, is generally small clear plains a coarse-bladed grass grassy forest land, thickly timbered with grows more than two feet high, and appears gigantic black butt gum trees and other like small wheat fields; the grassy flats are eucalypti, abundantly watered with numerous permanent chains of water-holes and gravelly water-courses in brushy hollows. From kinson was unable to explore much of the to the westward, through Dudley county, in an undulating outline of conical summits, a magnificent and extensive view is afforded with forest, the eye can trace the deep, narrow, brushy valleys of the streams forming the Nambucca, curling into the deep mountain recesses. In the north-west direction, tier beyond tier rose in serrated ridges the settler than its explorer supposed. of steep, high conical summits, the view bounded by the dim blue outline of a leve crested range of considerable altitude. To lofty mountains heavily wooded to the the east the eye embraces the dense forests and swamps on the Nambucca river—the silvery stream of its tranquil reaches, and verdant plains, grassy forests, steep, brushy the blue surface of the Pacific, twenty-five ranges, and some rocky water-courses. The miles distant. different ranges are grassy slopes—in some the sea coast, where it is 1,500 feet high the place of grass-in others, magnificent 3,000 feet, and gradually increasing in alticedar groves—and on the banks of creeks, tude as it recedes from the ocean. enormous wild fig-trees.

chain of conical summits, with an average chain which runs parallel to the Pacific, and height of 2,500 feet above the sea, divides the it coincides with the Nundewar lateral range

The outline of this coast into undulations, with steep conical Several other counties have recently been summits. A beautiful grassy forest immediately overlooks the Bellengen river, where The country at the base of the main such an unusual form, that it might be principally wooded by that species of eucalypti called forest mahogany. Mr Hodgthe summit of an elevated range extending country near the Bellengen river, as in a straight line of ten miles, he had to cross and recross the stream (little inferior in size to the Hastings river), no less than twelve to the westward, amidst a confused mass of times, on account of the steep, inaccessible mountains rising beyond mountains, covered forest banks, which formed tangents to the convex lands on either side He was unable, for want of provisions, to explore the upper course of this "romantic river," which possibly may be found more available for

The Bellengen river is separated from the Clarence river by a bold range of abrupt summits, and of a "beautiful colour;" the country between the two rivers consists of Towards the foot of these Bellengen range of mountains comes near to places, dwarf palms and ferns have usurped at eight or nine miles inland, upwards of range appears to be the highest and least A range of mountains characterized by a broken lateral offshoot from the great main interior or western side of the chain. Near very rich, and include Normanby, Laidley, the mouth of the Bellengen river a low range Innes, and Letitia plains. of hills extends along the coast, past the Solitary Islands; the country between these hills fifty-four miles south-west from Brisbane

through which the Nambucca and Bellengen a remarkable gap in the great dividing rivers flow, are the counties of Clarence mountain range, which was discovered by and Raleigh, divided by the Clarence Mr. Cunningham in 1827, and subsequently river. The country available for grazing explored in 1828, during an expedition which on the banks of the Clarence is much he made from the Limestone hills (now more extensive than that on the M Leay called Ipswich), on the Bremer river, for river, as the mountains do not attain this very purpose. This important passage any great elevation near the coast, and from the coast, through a formidable mounthe country is generally level, not only on tain barrier, commences near a valley, from the banks of the Clarence, but also near whence there is an ascent through a low table land opposite the sources of the Cla- presents an open patch of forest ground,

Richmond river, which at its mouth has and grassy. At about two-and-a-half miles scenery resembling that at the embouche of the ridge bends to the north of west, and the M Leav river, namely, mangrove scrubs, immediately the summit of the pass appears, tea tree, and swamp oak thickets, which bounded on each side by stupendous heads, cover the low flats near the mouth of the towering to the height of 2,000 feet, named river; higher up the stream the alluvial Mounts Mitchell and Cordeaux. Here the land is diversified by brush abounding in ascent becomes steep for 400 yards, and cedar and pine, clumps of bangolo palms, a level surface is reached at the top of the reedy swamps, small rich plains, and highly pass or gap, clothed with a thick brush of wooded forest flats of great richness. The plants common to the Brisbane river. From rest of the county, so far as is known, con- this point the waters may be seen falling sists of very thickly timbered forest land of westerly to Miller's valley beneath. The the greatest fertility. Mr. Hodgkinson country contiguous to the eastern entrance of thinks there are few rivers in New South this important means of intercourse between Wales where so much good available land the lower coast line and the upper table exists unbroken by densely wooded ranges land of Darling and Canning downs, and and ravine. Of the next northern county, Peel plains, 18 very beautiful. Mr. Cunthe Rous, watered by the Tweed, we know ningham passed a tract between the gap and little more than that the hills are thickly Ipswich, apparently part of the 50,000 acres wooded.

STANLEY COUNTY comprehends that part of

of Sir T. Mitchell, which is given off on the of mountains and plains; the latter are

In lat. 28° 2′ 40" S., long. 152° 24′ 20" E. and the sea appears to be grassy forest land. town, and sixty-four miles in a direct distance To the northward of Dudley county, from Point Danger on the sea-coast, there is its tributaries. There are, consequently, forest ridge at south, bending S.S.W. and numerous settlers and "squatters," with S.W. through the first mile and-a-half. their flocks and herds, in this neighbour- The acclivity is very gradual, and in another hood. Wool-drays can descend with com- half mile the ridge takes a decided bend to parative ease from the rich district on the the westward, its surface becomes wide, and rence river, to its navigable estuary. The timbered chiefly with oak and apple-trees. brushes near the mouth of the river are The ridge again narrows, but the declivity is interspersed with the beautiful variety of timber known as the "Moreton Bay pine." its sides, as also the gullies falling from it, RICHMOND COUNTY is watered by the leaving the back-ground clear of wood, open, comprising Normanby plains, of which he says-"Nothing can possibly exceed the New South Wales, lying between the paral-richness and mellowness of its fine black lels of 27° and 28° S. lat., bounded on the soil; and certainly there is not, in any exeast by the Pacific, and on the west by the plored part of New South Wales, a more coast range of mountains which forms the beautiful subject for the pencil of the artist dividing shed of the waters which flow than the landscape presented to the traveller towards the ocean, from those which flow from the centre of Bainbrigge's plains, to into the interior towards the Darling river. which no description of mine can possibly Length, from north to south, sixty miles; do justice." Bremer river, on which Ipsbreadth, sixty. The general aspect consists wich is built, at ten miles from its mouth,

has a tortuous course and a uniformity of respectable and flourishing town, is now breadth of thirty to thirty-five yards. Beyond Ipswich the river forms a fine natural basin of 100 yards wide; ledges of rocks fill the bed of the river, and separate the tidal salt water from the descending fresh mountain stream. At a few miles from the entrance of the gap, the rich flats and alluvial grounds are adorned with blooming vetch, called by botanists swainsonia, and with the lotus Australis, or "bird's-eye" trefoil, as also with a geranium and a senecio, frequently seen in Bathurst county. The grasses are chiefly those of the more southern districts of the colony. The "coral tree," with its splendid scarlet flowers, here grows to a height of thirty-five feet, with a smooth trunk, but thorny branches.

Brisbane, the county town, or the settlement, as it is still commonly called, is situated on an elevated ridge of considerable extent, on the north or left bank of Brisbane river, about twenty-five miles from its mouth This town was founded as a penal settlement, and many substantial buildings were erected by convict labour, which, when the district was thrown open for free settlers in 1842, would, it was supposed, form the nucleus for a large population. These reasonable hopes were, however, frustrated by the pursuance of the same mistaken policy which, in so many other instances, has retarded the progress of the colony, £100 an acre being fixed as the minimum price of building allotments in the town of Brisbane On the other side of the river, which is here nearly a quarter of a mile in breadth, building allotments were sold at a somewhat lower minimum price, and hence arose another small town, called South Brisbane in contradistinction to the older settlement A third town was established, by private speculation, at Kangaroo Point, a peninsula formed by a sharp bend of the river, situated exactly opposite to Brisbane town. tract being regarded merely as country land was disposable at the government land sales at a minimum price of not less than a pound an acre, at little more than which it was purchased by Mr. (now Sir Evan) Mac kenzie, and subdivided into building allot ments, for those who wished to have a fixed place of residence in the neighbourhood but could not afford, or did not choose to pay, £100 an acre for a building allotmen on the other side of the river.* The popu lation, which, united, might have formed one

* Cooksland-Dr. Lang.

scattered among three insignificant places, a consequence which has been the direct result of the system whose chief end was rofessedly concentration. According to Dr. lang, there is much land of very inferior quality near Brisbane town, on both sides of he river, but particularly on the south side: he tract from Brisbane to Ipswich, or the Limestone hills, situated at the head of the navigation of the Bremer, a distance of twenty-five miles by land, and fifty by the two rivers, being absolutely sterile, with the xception of a small plain of a few thousand acres in extent, called Cowper's plains, about ten miles from Brisbane. In another place, however, Dr. Lang says, that for some distance above Brisbane the river is considerably wider than at the settlement, and where the banks are high and rocky, as is often the ase in the lower part of its course, there is generally a considerable extent of level alluvial land on the opposite side, constituting what are called the brushes, in which the soil is of the richest description, and the vegetation much more varied and vigorous than on the forest-land, beyond the reach of floods. These flats are found along the whole course of the main river and its various tributaries, and in the higher parts of its course are both more frequent and more extensive than in the lower. Ipswich, or Limestone, is a rising town, well situated at the head of the navigation of the Bremer river, and on the direct route to the Darling downs, by Cunningham's gap. From Ipswich the Bremer pursues a tortuous course, between steep banks, for about twelve miles, to the Brisbane river. A small steamer now plies between the towns of Ipswich and Brisbane. The Bremer is subject to floods, and has been known to rise fifty-three feet above its ordinary level; but the Brisbane being considerably wider, the water, in times of mundation, escapes much more freely, and the floods on that river are, consequently, not nearly so high. Limestone plains, in the immediate vicinity of Ipswich, are a tract of land almost destitute of timber, of the richest and most fertile black mould. The distance to the foot of the mountains is only thirty-eight miles, and quite level throughout; at eighteen miles from Ipswich there are other plains, similar to those at Limestone, called Normanby plains, containing an area of from 40,000 to 50.000 acres.

The whole country bounded by Moreton

south to north—is well adapted for grazing and agricultural farming; the soil around the Glasshouses (peaked mountains, so called by Captain Cook, when he discovered and named the bay), is formed of decomposed animal. The blacks are very expert in harlava, and very fertile. The indigenous timber is of great value—the auracaria Cunninghami or Moreton bay pine, and the auracaria Bidwellia or the Bunya-Bunya tree, have been already mentioned. The mulberry tree grows very luxuriantly. With regard to the adaptation of this locality to the cultivation of the vine, there appears much difference of opinion; but the periodical rains of January and February, coming as rains of January and February, coming as Pumicestone. Creeks.—Coyar, Graham, they do, just at the season when the fruit Franklin, Yarril, and Downshire. Towns. needs maturing by a hot sun, seems a great Brisbane (chief), on the Brisbane river; and obstacle. The climate and soil appear well Ipswich, on the Bremer river. Harbour. suited to the cultivation of the sugar-cane, cotton, arrow-root, tobacco, indigo, and other tropical products; and, according to Peel, belong to Stanley county. Dr. Lang, is also admirably adapted for grain, as well as of those peculiar to warmer climates; for as vegetation goes on without interruption all the year round, the farmer each. Coal is found in the neighbourhood narrows to the appearance of a mere river. of the Brisbane; and the fisheries of the extensive bay and coast may be made very west of Stanley county, is divided on the profitable. By recent accounts, it appears south from Churchill county by Lockyer's that the colonists at Brisbane have com- creek, which is surrounded by extensive menced capturing the Yungan, called also plains. Dr. Leichardt says: "I have seen

• The summer heat of Moreton Bay will, I think, prevent the extensive employment of European agricultural labour at this station; but under a well devised system, and with due encouragement, a large and valuable class of Chinese immigrants might be induced to settle at Moreton Bay, where they would soon become successful cultivators of sugar, cotton, mulberries for silk, tobacco, and other products suited to the soil and climate. The Chinese are now

-a distance of about fifty miles from the dugong or sea-pig of Moreton bay, for the purpose of extracting the oil from the animal; the oil procured in this way is highly spoken of, being remarkably pure and clear; about five gallons is obtained from each pooning these animals, and they are passionately fond of the flesh, preferring it to any other kind of food.

The chief Eminences in Stanley county are Mounts Brisbane, Hallen, Forbes, Frazer, Edwards, Sampson, Cross, Melbourne, and Stephenson, Frenchplay peak, Tenthill, and D'Aguilar's range. Rivers.—Brisbane. Bremer, Stanley, Logan, Teviot, Lockyer, and The fine haven of Moreton bay; the adjacent islands of Moreton, Stradbroke, and

Of the three islands which run nearly the production of every species of European parallel to the coast, and form the haven termed Moreton's bay, Stradbroke, the most southern island, is thirty miles in length, and five in breadth; at its southern extrehas only to select, for the growth of any mity is a sand-spit, parallel to the main land description of grain, the peculiar season that for twelve miles. North of Stradbroke is will ensure the exact temperature required Moreton island, with a navigable channel to bring it to maturity; the barley harvest, between the two of a mile in width. Morebeing the hardiest grain, comes immediately ton island runs north for about twenty after the colonial winter, the wheat harvest miles, with a breadth of three miles. The at the commencement of summer, and the third or most northern is Bribie's island, maize harvest so late as to give that inter-termed Yareen by the natives; it is seventropical grain the full benefit of the heat of teen miles long, by two to three broad. summer. This latter crop is a never-failing. There is a channel of eight miles wide, with one at Moreton Bay, yielding, on alluvial five to six fathoms water, between Moreton land, at the rate of eighty bushels an acre. and Bribie islands. These three islands are The English potato, and the Indian or stated by Dr. Lang to be hopelessly sterile to sweet potato, are both cultivated success- seaward. Moreton bay, throughout its whole fully*. The latter is very prolific, and is extent of sixty miles long by twenty miles grown near Brisbane to the weight of wide, is studded with islands of various sizes, eighteen, and even twenty-three pounds and at its southern extremity it gradually

CAVENDIBH COUNTY, situated to the north-

purchasing land at Sincapore, and cultivating it with their usual skill; thousands would emigrate from Amoy, if the local government of Australia gave them due encouragement. The table land above Moreton bay may probably be more adapted for European out-door labour, but I certainly doubt the eligibility of Stanley county as a residence for the distressed needlewomen of London.

some forty miles more of the district, and wooded, which increase in elevation towards the more I see, the more I feel convinced that it is eminently fit for small settlers." Ridges of small elevation in this county, contain small concretions of carbonate of a fertile country. Besides this description of soil, there are many flats between the primitive mountain ranges and the ridges forest ground resembles, at present, one uninterrupted oat or rye-field in harvest. Antistheria Australia, which grows from three to four feet high, is the predominant grass, and is burnt off from time to time, the ashes form a good manure by which the soil is enriched, the tuft enlarged, and a younger and more nutritious grass formed.

COMMISSIONERS' DISTRICTS, OR SQUATTING are officially termed commissioners' districts, of sheep, cattle, and horses are authorized, by licences from the colonial government, to depasture their flocks and herds over squatting stations are being converted into countres, as population increases and land is in demand for purchase. In the year 1848 the squatting stations in the Sydney portion of New South Wales were-

Dietriote

OHICI I IMCCO
Dubbo
Grafton
Warwick.
Gundegai.
Tamworth.
Kempsey
Cressbrook.
Deniliquin
Armidale
Molong.

Chaof Places

To begin with the southern districts of the colony. The Maneroo has been de scribed in Auckland county.

The Murrumbidgee squatting district situated between the left bank of the Mur rumbidgee river on the north, and the righ bank of the Murray river on the south; or the east it is conterminous with the Ma neroo district. It is one of the largest and finest tracts in New South Wales; has extensive plains and swelling uplands, thinl

he Australian Alps. The most prominent minences are-Mounts Trafalgar, Battery, Friday, Aikin, Mingeroo, Majonbury, Janil, "albingo, Kengal, and the Snowy Mounlime, which are equally found on Darling tains, where the Murrumbidgee and Murray downs and on Liverpool plains, indicating rivers have their source. The district is ell watered by two of the largest rivers in New South Wales, and also by the Doomut or Tumut, Burnett's, and the Coodrabidgee; by where a bed of clay lies generally one-and- the creeks Tingella, Yewen-Yewen, Nackiea-half to three feet below the surface. The Nackie, Aidelong, &c. Hamilton plains, on he south bank of the Murrumbidgee and Camden forest, watered by Tingella creek, are extensive and valuable tracts. Albury, advantageously placed on the Murray river, is the post town of the district. It is in the high road from Sydney to Melbourne, hrough Goulbourn, Yass, and Gundegai. This last-named town, 250 miles from Sydney, is situated on one of the flats of the STATIONS.—Irrespective of the foregoing Murrumbidgee, which is here as broad as counties of New South Wales, there is a the river Clyde at Glasgow; but, like all large extent of the colony divided into what Australian rivers, subject to expansion from floods. On one occasion, in October, 1844, or "squatting stations," where the owners the Murrumbidgee rose more than forty feet above its ordinary level, and covered the parlour of the mn at Gundegai to the depth of four feet. The Murrumbidgee is here certain tracts. From time to time these fringed with swamp oaks, which are not found on any river farther south. banks and districts for many miles above Gundegal are occupied as grazing stations and at intervals by small farmers.

> Lachlan squatting district is situated between the right bank of the Murrumbidgee river, and the left bank of the Lachlan river. This large division of the colony consists chiefly of a series of undulations, with exten sive plateaux, such as the Euryalean (between Mount Brogden and Jones hills), and Molle plains, on the south bank of the Lachlan There are several lakes; the principal are— Quawingame, near the confluence of the Lachlan and Murrumbidgee rivers; Campbell's, Goorungutty, and Cudjallogong, or Regent's lake. The chief eminences are-Taylor's, Peel's, Macquarie's (or Coccaparra), Yerraraser, Goulbourn's ranges, Mounts Stewart, Gill, Watts, Myarong, Berabidgal, Matta, or Mannar (hill), Maude, Garrow, Meyrick, Balloon, Moriatta, Portesse, and Byng. The rivers are the Lachlan, Murrumbidgee, Yass, and Boorowa.

> Sir T. Mitchell, speaking of the country near Jugion creek, on the right bank of the Murrumbidgee, on the road which leads towards Sydney, says-"The scenery at

so essential to the harmony of landscape cattle of every hue. already covered with the lowing herds, for The which it seemed to be prepared." traces of the industry of man are obvious in fences and substantial wooden houses, with their smoking chimneys, built in the most inviting parts of each cattle run. This region is thinly wooded with the gigantic Yarra eucalyptus, and it is one of the finest pastoral districts in the colony. Nothing definite is known of the Lower Darling River district, but the country appears to deteriorate the further it is explored westward of the great coast range. On that portion of the Lower Darling which is bounded by the Lachlan river, there is good pasturage and several stock stations.

Wellington district. - Adjacent to the counties of Wellington and Bathurst, and between the Lachlan and the Macquarie rivers, is a very fertile tract. The plains Wellington, Cannil, Baird, and Gullerong hold within the boundaries of this district afford sweet pasturage. The eminences are Harvey's, Croker's, and New Year ranges, Mounts Coulambals, Laidley, Bugamel, Marga-Nangar, Amyot or Camerberdong, Mel- cester county. ville, Allan or Wolga, Picor Talga, Hurds, Paccalang, Gundobillong, and Warranary. Agricultural Company's lands, consisting of Rivers Lachlan, Macquarie, Byrnes, Kalın-313,298 acres, commences at the source of galungaguy, Yamerunna, Belabula, Bell, the Peel river, immediately under the great creek, and several other creeks.

side by the Macquarie river, and on the lands, from their elevation above the sea, and north by the Liverpool range, as it extends being beyond the genial effects of the sea to Warrabungle range. The pasturage is excellent, and it is well watered. eminences are Mount Harris and Warrabungle or Arbuthnot's range, which comprises Load-Peak.

Liverpool Plains squatting district (native name Corborn Comleroy) is bounded on the be grown to any extent. south by the Liverpool or great dividing coast range, on the east by the western ex- with a tall luxuriant grass, but comparatively tremity of the same great dividing range; on the north and west the boundaries are the same facilities as the land at Port Ste-This is the finest pastoral dis- phens. two parallel mountain ranges, it is traversed this portion of the company's possession, and forest which divide the plains into a series other parts of them. of natural parallelograms, and excellently

various points of the river seen this day was watered by the numerous rivers and creeks very beautiful; its chief features consisting which run eastward and westward, and are of noble pieces of water, umbrageous woods, the source of nearly all the streams to the flowering meadows, enlivened by those objects northward of Sydney. The chief eminences are the Warrabungle, or the Arbuthnot range. Each meadow was which divide the Liverpool plains from Bligh district; the Great Liverpool range, the Green mountains, Vansittart hills, Pandora's Pass, East Bluff, Mooan, Mac Arthur, Tereil. Murulla, Temi, Spear range, Breeci, Dinbundie, Forbes, Turnel, Shirley, Nundawar or Hardwick's range, Mount Riddell, Albuera, Drummond range, Frazer, Lindesay, Purren Virden, Bullinbulla, and Gulligal. principal rivers are the Peel, Cockburn, Bireboola, Mooriloo, Bowen, Yorke, Turrabeile, Parry, Nammoy, Goonore, Gaora, Coradilla, Mulnuerindie, Maules, Coagi, Buddle, Horton, Kareen, Bombelli, Gwydir, and The creeks are those of Car-Darling. ringoha, Purreonville, Weeves, Ogunbill, Moonbi, Calingorady, Moowar creeks; and the Lobster, Meadow, Welcome, Rocket, Bombelli, Limejuice, Pelican, and Roderigo ponds.

The Australian Agricultural Company 562.898 acres out of their grant of 1.000.000 acres, the remainder, consisting of 437,109 acres, are, as previously stated, in Glou-

The Peel river portion of the Australian Molle, Mary, Elizabeth, Bogan or New Year range, and is bounded on the east and north by that river, and on the west and south by Bligh squatting district is bounded on one marked lines to include the above area. These breeze, are subjected to greater extremes of The chief both cold and heat than the Port Stephen's grant, and are occasionally hable to frosts, but the soils in the valleys are rich and ferstone hill, Mount Harrison, and Vernon's tile in the extreme, and although crops of maize and tobacco cannot be depended upon, wheat and potatoes may, it is considered,

The hills are everywhere richly covered bare of timber, not affording in this respect The Peel river forms, for some trict in New South Wales; situated between miles, the northern and eastern boundary of at irregular intervals by narrow belts of streams of minor importance run through

The remaining grant of the Company, a

parallelogram of 249,600 acres, is not more the Rhine, and at Constantia, Cape of Good were originally a fresh-water lake, since filled in by the washings from the surrounding hills, and consequently containing the richest alluvial soils of very considerable depth; the pasturage on the plains is decidedly herbaceous, on which stock of every description thrive remarkably well the hills are coated with the same character of grass as that on the hills of the Peel's River tract, differing only from the grass on the eastern side of the Barrier range, masmuch as it is more rank in growth, and more fattening in quality. The numerous streams that intersect and are comprised within the boundary lines of this portion, on reaching the plains become absorbed in the soils, so that they are somewhat deficient in surface water, which is nevertheless always attainable with ease and certainty at five-andtwenty feet below the surface; and Artesian wells might be here introduced with incalculable advantage.

On all the lands of the company large sums of money have been expended by the company in making roads and bridges, and in the erection of houses and buildings.

The company has also large flocks of sheep-herds of cattle and horses, depas- lengen. turing on their several locations, the breeds of which are of the purest and most valued kinds, sent originally from this country, France, and Germany, at very great expense, and selected with considerable care and

judgment.

M'Leay squatting district is divided by the Macquarie river on the south from Macquarie county, on the west it is bounded by New England district; on the north by Clarence River district, on the east by the There is a large extent of available land along the banks of the M'Leay river, on whose banks, as before stated, Kempsey, the post-town, is situated. The soft slaty ranges, more than usually disintegrated and decomposed, are very general in the basin of the M'Leay river, and being converted into a rich loose soil, have a comparatively better grassy covering than the other forwooded, and, it is supposed, would be preslate, as is observable on the mountains near the centre of this squatting district is Arma-

than fifteen miles from the western boundary Hope. At Dongar creek, near the M'Leav of the Peel's river grant, and embraces the river, there are several limestone caves full greater portion of the flats or levels which of stalactites, of singular conformation. Proceeding from Dongai creek, up the banks of the M'Leay river, there are a great number of squatting stations belonging mostly to retired officers. The country they occupy is abundantly watered, independently of the river, by numerous permanent chains of ponds and water-courses. The grass is good, but the country, especially on the north bank, soon becomes elevated, the ranges rising one beyond the other, in endless succession, covered with dense brushy forest, and intersected by ravines and watergullies. There are scattered sheep stations on the Upper M'Leay and Apsley river; but the rugged mountainous country intervening between them and the Lower M'Leav, prevents all communication between the settlers on either side. Mr. Ralfe, the government surveyor, has discovered a passage over the mountains (some of which are 6,000 feet above the sea) from the table-land of New England, and a road has now been constructed to Port Macquarie, for wool-drays, so that the staple produce is conveyed in the weekly steamers to Sydney. The Solitary Islands are off the sea-coast.

Rivers. — M'Leav, Nambucca, and Bel-

New England squatting district, bounded on the east by a line from the confluence of the Barnard and Manning rivers to the top of Mount Seaview, thence by a line to the top of Wirrikimbie mountain, and thence by a line north by compass from Wirrikimbie, dividing the district from Macquarie county, and from the M'Leay and Clarence River districts; on the north, by a line due west, so as to intersect the top of Mount Girard, near the head of the north branch of the Clarence river, and dividing this from the Darling Downs district; on the west by the western extremity of the great dividing range, so as to include the table land; and on the south by the Manning river, which forms the north boundary of Gloucester county. This elevated district is one of the best sheep pastures in Australia. Mr. Pattison remarks, in his work on New South mations; they are not, in general, thickly Wales, that nothing will astonish the traveller in the bush more than the rapidity eminently favourable for the growth of the with which villages and settlements spring vine, which seems to delight in earth mixed into existence; a court-house, inn, and store. with, or formed from decomposed black clay are the first attempts in a bush township. In dale, which, in 1842, had solely a policestation; in 1848-9, it had two places of worship, five inns, a steam-mill, stores tradesmen of all kinds, and was a thriving town, with a weekly post to Sydney. *Eminences.*—Ben Lomond, Mitchell, Gal-

Eminences.—Ben Lomond, Mitchell, Galligal, Bullimbulla, Basaltic rock, Wirrikimbie, Mount Seaview, Sugarloaf or Chandler's

peak, and the Blue mountains.

Rivers. — Barnard, Apsley, Hastings, M'Leay, Croker, Clarence, Severn, Burrell, Anderson, Dumaresque, Boyd, Mitchell, Man's, and various creeks and ponds.

Clarence River squatting district is bounded on the south by the ranges which form the basin of the Clarence river, on the south side of that river; on the west by the New England district; on the north by the ranges forming the basin of the Brisbane, and the Logan on the south side of these rivers; and on the east by the sea-coast. I do not know the area of this district, which is mountainous. The principal eminences are, Mounts Lindsay (5,700 feet), Warning (3,300 feet), Hughes, Wohman, Coke, King William, Ballow, and Barney. It is watered by the Boyd, Clarence, Tweed, Richmond, Brunswick, Logan, Teviot, and Albert rivers; and by Urara, Myrtle, Loadstone, Deep, Reynolds, and Yarril creeks.

The following is an extract from a report of Mr. Commissioner Fry, commissioner of crown lands in the Clarence district, and a magistrate of the territory, drawn up in

June, 1846:-

"The plains on the banks of the Clarence river are of various sizes, many of them extending along the river for miles, the soil being a deep dark alluvial deposit on a substratum of clay, covered at top by a layer of vegetable decomposition, the accumulation of ages, and so thinly timbered that isolated acres may be found unincumbered by a single tree. The astonishing vegetation with which they are clothed is almost inconceivable, such indeed as I have never witnessed elsewhere save on the equally favoured regions of the Richmond, a river forty miles to the northward of the Clarence. It is impossible to imagine a country more worthy of having bestowed upon it the labour of the husbandman, or one more likely to remunerate him for his toil than the localities to which I refer, as they are remarkable, not alone for the excellence of the land, but for being placed under a climate than which none can be more conducive to the process of vegetation. An almost complete realization of Fenelon's conception with reference to Calypso's isle is exhibited in the climate of the Clarence, as, without any degree of hyperbole, a perpetual spring may be said to prevail during the entire year, for so mild are the seasons that vegetation remains unchecked even in the midst of the socalled winter. Rain is abundant, so much so as to give rise to the opinion that the district is unsuited for pastoral purposes, at least so far as sheep are

concerned. Frost is very unfrequent, and never intense, as may be inferred from its geographical position. The heat in summer is considerable, but an excess of two or three days is almost invariably succeeded by thunder showers which for a time ren-der cool and invigorating the air, occasionally causing an extraordinary rapid change of temperature, the thermometer having been frequently known to vary no less than forty degrees in the space of twelve hours. This sudden caprice of temperature is however not in the least creative of unhealthiness; on the contrary, I am satisfied there is no part of New South Wales, however justly it may be famed for the salubrity of its climate, which is more conducive to the health of the human body than the district of the Clarence river; indeed most others must be confessed to yield to it in this respect, inasmuch as the neverfading mantle of green in which it is perpetually clothed, shields its inhabitants from the opthalmic diseases so prevalent in other parts of the colony. Were it necessary to adduce any corroboration of this truth, I need only refer to the unsuccessful effort of a medical practitioner to establish himself in the district, who, though eminent both for professional talent and amenity of manner, was obliged to abandon the undertaking, after a fruitless attempt protracted for upwards of two years, his failure solely arising from the almost entire absence of disease, as it cannot be imagined that a population amounting to nearly 1,000 souls, and possessed of 150,000 sheep and 30.000 cattle, would be unable sufficiently to remunerate him were his services required. On the whole, a four years' residence in the district has confirmed me in the opinion, that no country ever came from the hands of its Creator more eminently qualified to be the abode of a thriving and numerous population, than the one of which I have been speaking; and in forming this estimate I have been uninfluenced either by prejudice or by interest, being no way concerned with it save in that arising from my official capacity."

From the thirtieth degree of latitude, there are tidal rivers along the coast to the northward, every forty miles; all perennial streams.

Canneng Downs, to the westward of Churchhill and Buller counties, are several miles in length, and two to three miles in breadth; on each side of the plains there are ranges of middling height—now a chain of cones, now flat-topped mountains, covered with brush, then long-backed hills sharply cut at their ends. The soil of the downs is black, and yet mild, with many white concretions of carbonate of lime; the vegetation is quite different from that of the forest ground on the other side of the coast range, and the

asses are more various, but they do not here exclusively occupy the ground; they grow, says Leichardt, more sociably in small communities, together, separated by succulent herbs, particularly composites; the creeks are deeply cut, with steep banks covered with reeds. This celebrated explorer of the resources of New South Wales, says: that the finest mountain country he has seen in the colony, is the eastern side of

the "gap," through which the road passes then surveyor-general Oxley. Cunningham Canning downs. Sunny ranges covered with fine grass and open forest, ascend pretty rapidly to the pass. The coast range forms an amphitheatre of dark, steep mountains: high, into a rocky valley, which one might take for the crater of an extinct volcano, if the surrounding rocks warranted such a Bold isolated mountains apsupposition. pear in the distance, in their various tints of blue, during sunset "dimming through a purple mist." Both sides of the mountain have some brushes, particularly the western side, in which many of the trees of the Bunya brushes reappear. This is the most western point in which that beautiful palm, the aracauria Cunninghamia, has been found: the Seaforthia palm is frequent and high. The rosewood acacia is abundant; it has a very agreable violet scent. The "bottle tree," which is found in various parts of tropical Australia, is seen here; it swells slightly four to five feet high, then tapers rapidly to a small diameter, the whole height about forty feet; foliage thin, crown scanty, leaves lanceolate, and of a greyish green. The Canning and Peel downs, which by some are considered as part of the Darling downs, extend northward to lat. 26° 50′, six miles beyond Jimba creek. Their length is estimated thirty to forty miles; they slope gradually from the great eastern range down to the Condamine.

Darling Downs are in length about 120 miles, from north to south, with an average breadth of fifty miles, bounded on the south by a line extending due west, so as to intersect the top of Mount Gerard, which is near the head of the north branch of the Clarence river, and dividing this from the New England district, on the east by the range dividing the east and west waters, separating this from the Clarence River district and from Stanley county; on the north and west the boundaries are unde-The plains of this extensive district are the Darling downs, Canning downs, Cecil, Peel, and Waterloo plains. The chief eminences are Mount Parker, M'Leay, and Herries' ranges, mounts Sturt, Mitchell, Logan, and Hay peak. It is well watered by the Condamine, Glen, Dumaresque, Boyne, Macintyre, Myall, and other streams.

the late Allan Cunningham, in 1827, during From the Condamine river the country rises the course of an expedition suggested by very gently-almost imperceptibly, till the

from the Brisbane to the southern parts of left the Upper Hunter's river on 30th April, 1827, with six servants and eleven horses, and previous to his departure, expressed to me his conviction, that the discovery of a valuable country would be the reward of his a waterfall rushes over a precipice 300 feet labours. He crossed the dividing range at an elevation of 3,080 feet above the sea, skirted the Liverpool plains at an elevation of 840 feet, through a forest country; and about forty miles to the northward of 31° 2' S. lat., 150° 30' E., found that the country had gradually risen to 1,900 feet. After crossing the parallel of 30°, and passing a poor region, the adventurous explorer descended to "a beautiful and well-watered valley, affording abundance of pasturage." This valley terminated sixteen miles farther north, on a stream (the Gwydir) flowing north-west, in 29° 51' lat., 911 feet above the sea. Proceeding northward through a comparatively inferior tract, he came in lat 29, long. 150° 40' on a river running westerly, eighty yards wide, and very deep, 840 feet above the sea, and 170 miles from the coast. Here the land was good. A country, then and, on account of the existing drought, was next explored in a north-easterly direction for eighty miles, and eventually led to a clear, pastoral region, which has since proved so valuable. Deep ponds, nourished by streams from the islands immediately to the eastward, extend along its central lower flats, which being permanently watered furnish an almost mexhaustible range of cattle pasture at all seasons. From these central grounds rise downs of a rich, black, dry soil, and of a very ample surface; they furnish abundance of grass, are conveniently watered, and, being above the reach of the floods which take place on the flats during seasons of rain, are well adapted for sheep stations. Some hills are connected laterally with the bold outline of the stupendous-looking coast-line range: they are clothed from head to foot with dense underwood. The greater part of the downs is composed of hill and dale. woodland and plain, forming a most beautifully diversified landscape.

There is communication with the sea-coast from this table land by Cunningham's gap, through Stanley county, to Moreton bay. The mean elevation of the Darling downs is 1,800 to 2,000 feet above the sea; but Mount Mitchell, the highest peak of the The Darling downs were discovered by adjacent range, is 4,100 feet above the sea.

and high grass. tree is seen, either single or in groups and in 26° S. lat., fine flats extend along its groves, one foot or more in diameter, and banks and open ridges, with sound ground eight to ten feet high. The ranges which some miles off the river. At Palm-tree border the plains are covered with box-wood; creek, in 25° 34' S. lat., there are rich flats, ash; and with other trees; but all very Following up this creek is a flat table land, scattered. The forest becomes denser on where the waters are turned to the southapproaching the eastern slopes. Dr. Lei- west. Proceeding towards Robinson's river chardt thinks there is no equal to the Dar- or creek, the whole country is openly timling downs for sheep rearing, the mutton bered, the ridges at the upper part of the being fat and tender, and the wool excellent. creek, in part, covered with silvered-leaf iron One shepherd can here look after two to bark, and well adapted for sheep. Fine three thousand sheep; whereas, in other flats extend along its bank, when first met districts, three or four shepherds would be with, in 25° 28' S. lat. At Zamia creek, in requisite for the care of a similar number. 24° 54′ S. lat., there is a flat country of very They are traversed, at moderate distances great extent, almost unbounded by any rise from each other, by streams or creeks, rising towards the north-east. The creek is acin the lofty coast range, and running west- companied by small flats and thick scrub; ward to the Condamine river. The usual but the flats extend more and more, and the extent of a sheep run or station is twenty scrub recedes as it approaches the large miles in length, by six miles in breadth, or open country, which appears thinly timbered. three miles on each side of one of these The reader may follow, with his eye, these creeks; one station, therefore, contains 120 tracts of country, along the routes of square miles = 76,800 acres. Dr. Lang Mitchell and Leichardt, in the accompanying says, that on the east side of the range map of New South Wales. A more detowards the coast, the sheep and cattle sta- tailed account of the new regions they extions are not unfrequently of this extent. plored is given at pp 388 to 393. Large plains stretch along the Condamine river, some fifty miles long by twenty-five not yet divided into counties, is marked by of greater extent than the whole of the three years) supplies the aborigines with a present squatting districts; and that after very palatable food, which they travel a they never suffered from heat, and had no periodically, to obtain. Some of these giants want of water. There is excellent pasturage of vegetation, which rise to 150 feet, as in the tracts watered by the Cogoon, Ma- straight as a gun barrel, have a circumranoa, Claude, Belyando, Warrego, Nogoa, ference of twenty feet, at six feet elevation and other rivers, which flow from the south from the ground; the cones, which are about side of the Plutonic cones-Pluto, Hutton, one foot long, and three-quarters in diameter, and Playfair; but the country on the Vic- somewhat like a pine-apple, contain forty to toria river is better watered than any other fifty scales, beneath which a kernel is found, part of Australia seen by Sir Thomas which Leichardt says, is "delicious eating," Mitchell. The soil is of rich clay, and and that it is difficult to cease eating them. covered with luxuriant pasturage. To the These trees, which look like "pillars of the north-east, after passing the great plains of blue vault of heaven," extend over a brush the Condamine, Leichardt entered on a about fifty miles in length, by ten in breadth.

road passes between two hills or ranges, country which was alternately covered with where basaltic rock appears, and very exten- fine open forest land, well grassed, and fit sive shallow valleys or plains, generally in- for cattle and horse breeding, and with long tersected by a creek overgrown with reeds stretches of almost impassable brigalow Here and there the grass scrub. Along the Dawson river or creek, with a gum-tree, called the Moreton Bay fine ridges, and a plentiful supply of water.

The country north of Stanley county, miles broad—true savannahs, in the centre a very high range of sienite, broken through of which may be seen the sharp line of the by basaltic rock, dividing Stanley county horizon, as on the ocean. North-west of from the Wide Bay district. To the norththe Condamine, on the Cogoon river, are the ward of the 27th parallel is the Bunyavaluable Fitzroy downs, with "mount Abun- Bunya country, so called from a gigantic dance;" and still further north there is an tree of that name, with an umbrella-like immense extent of pastoral country, dis- head, which overtowers all the trees of the covered by Mitchell, which he states to be brush, and at certain seasons (about every his exploring party crossed the Darling river, distance of two or three hundred miles,

hood, so named by captain Cook, rise out of low ranges—some like needles, others like castles—the highest (Biroa or Birwah) entirely different from the surrounding mountains. Dr. Leichardt, who had seen similar mountain features in the neighbourhood of Clermont-Ferrand, in Auvergne, considers these isolated cones to consist of appears, single but full high bushes of a pean productions." broad-leaved boronia, a dendrobium with red blossoms, and other flowers. Leichardt these mountains, which are surrounded by sandstone ridges of a coarse grain. The grass-tree (Xanthorraceae) grows in thousands (except on Darling downs, or other places possessing a very rich, black, mild soil containing much carbonate of lime, this is generally a sign of a poor or thin soil), casuarina, the apple, and other trees, abound in the district. The Boyne river, which traverses the region east of Wide bay, was discovered by Mr. Henry Stuart Russell. He found, after leaving Jimba creek (see map of New South Wales), that the whole character of the country alters-instead of the wide-spreading plains upon the Darling downs, there is a fine undulating country thickly timbered, and covered with the most luxuriant grass; the ridges are chiefly gra-The bed of the Boyne river is 1,500 feet above the sea. On the first day's journev down the river, the explorers passed over some lovely country; nothing could be more beautiful and luxuriant than the valleys; the foliage of all the trees, amongst which is the conspicuous wide-spreading "apple tree," appeared fresher and brighter than any Mr. Russell had seen in any other part of Australia. Droughts, they found, were unknown; the soil, dark and rich; the grass, chiefly oaten, which is the most fattening; the ridges high (always the sign of good sheep-ground,) and well wooded, chiefly with the broad-leaved iron bark. On the second day's journey down the Boyne, many streams joined it from the east and west; the land became more mountainous, and the

The "Glasshouses," in this neighbour- north line from Jimba. On the fourth day they came upon a full flowing stream from the eastward, which they called the Stuart. The journey was continued during sixteen is about 1,000 feet high, composed of rock days, for 300 miles along the banks of the Boyne—though the distance from Jimba was not supposed to be more than 150 miles. Where Mr. Russell's journey terminated, the climate was too warm for the growth of wool; but the country was well adapted for what geologists call rockdomite. The Biroa the cultivation of rice, sugar, and other trois extremely steep, and its sides almost pical products. On the upper part of the naked rock; but wherever a hollow or de- river Mr. Russell says: "there is an expression has allowed the accumulation of panse of the finest country for sheep and some soil and of moisture, a rich vegetation cattle, and also for the cultivation of Euro-

Irrespective of the arrangement of counthinks that the sea once heaved against ties and districts, the colony is divided into three dioceses, viz., Sydney, Newcastle, and Melbourne; the latter includes the whole of the Victoria or Port Phillip district: Newcastle comprises the seven northern counties of New South Wales, viz., Northumberland, Gloucester, Hunter, Durham, Brisbane, Bligh, and Phillip counties; the Sydney diocese comprises all the remainder of the territory not included in either of the two before-mentioned dioceses. The Episcopahan churches and chapels in New South Wales, scattered throughout the colony, are in number-of stone, 28, of brick, 30; of wood, 12. The Roman catholic chapelsof stone, 28; of brick, 10; of wood, 6. The Presbyterians are divided into the presbytery of Campbelltown (three chapels), of Maitland (five chapels), of Melbourne (five chapels), of Sydney (five chapels and two temporary), and of Windsor (three chapels). The Wesleyan methodists have forty-two chapels in the different counties of New South Wales.

I have endeavoured to delineate the leading features of this noble colony, according to its several divisions; but as may naturally be supposed, a region that extends for more than one thousand miles along the shores of the Pacific, viz., from Cape Howe to Hervey's bay, and upwards of five hundred miles inland, ie. from the ocean to the river Darling, and whose colonization is, comparatively speaking, the work of yesterday, can yet be but partially known. If we view New South Wales as a region ten times the size valleys richer and more fertile. The th rd of England, with a chimate unsurpassed for day the travellers stopped at Barrendowan, salubrity, and peculiarly adapted for the "a beautiful spot," fifty miles in a direct Anglo-Saxon race, with a table-land of

492 AREA, POPULATION, CULTIVATION, AND STOCK OF EACH COUNTY.

nearly half-a-million square miles, supported for a thousand miles by gigantic mountain buttresses of four to six thousand feet high: this table land for the most part throughout the whole year covered with the most nutritious herbage, admirably adapted for the food of sheep and cattle, and intersected by a network of streams; the mountains clothed with useful timber, the valleys, where cultivated, vielding fifty to one hundred-fold of grain, the coast line indented with secure havens, and the ocean, the lakes, and the rivers teeming with fish-some idea may be formed of the importance of this valuable section of the British empire.

vouchsafed to England, will be best manifested by shewing, in a tabular form, the area of each county and district, the small number of acres cultivated, the quantity of live stock, and the number of acres to each individual in each county and district. It will be observed from the annexed table. that in the counties there are from five hundred to five thousand acres to each inhabitant : in the districts not yet formed into counties, the range is from five thousand to ten thousand acres for each European resident. The total number of inhabitants on about 96,909,364 acres, is 154,515, which gives for the portion of New South Wales included The limited extent of which we have as in these details, 628 acres for each Angloyet availed ourselves of the blessings thus Saxon at present dwelling in the land:-

Counties and Districts	English	White	No of	Acres	Houses	Nu	mber of Lave	re Stock in 1848			
in New South Wales, exclusive of Port Phillip	acres, in each about		each inhabi- tant, about	culti- vated, 1848	ın each, 1846	Horses	Horned Cattle	Sheep	Swine		
COUNTIES:-											
Argyle	1,248,600	5,000		4,927		3,652	22,831	260,708	1,285		
Auckland	1,536,000	1,000	1,400	-	100	_	_	-			
Bathurst	1,190,400		297	4,656			18,339	266,369	1,021		
Bligh	1,070,120	598				1,015	6,551	119,352	68		
Brisbane	1,150,160	1,406		732			10,153	132,319	949		
Camden	1,140,320	8,323	142	12,071		5,490	33,953	38,657	6,156		
Cook	1,065,600	3,598	355	7,508		2,112	8,929	13,104	4,283		
Cumberland	914,800	73,538	12	34,311		13,294	29,710	11,265	13,728		
Durham	1,354,880	7,554	193				36,977	122,588	8,088		
Georgiana	1,231,360			2,086		2,928	24,517	198,325	936		
Gloucester	1,375,200	2,399		4,061		1,180	21,176	3,593	2,662		
Hunter	1,315,840	1,190				1,416	6,776	11,239	1,733		
King	1,159,840	1,665	724	1,598		1,319	16,200	106,986	708		
Macquarie	1,408,000	1,973	740	1,200		872	14,544	14,300	698		
Murray	1,458,080	2,721	730	3,632		4,340	28,288	328,972	1,339		
Northumberland	1,498,880	13.335				5,827	34,563	21,806	10,653		
Phillip	1,035,520	641	1,550	722	39	1,033	6,030	89,800	163		
Roxburgh	972,160	2,353		2,570		2,420	18,250	188,900	630		
St. Vincent	1,704,884	2,102	852	3,689		2,329	20,724	62,504	3,116		
Stanley	2,000,000	1,599	1,333	42		446	3,947	23,829	148		
Wellington	1,059,840	970	1,177	693		681	11,548	77,693	256		
Westmoreland	1,018,860	1,575	179	1,787	_	2,040	13,277	46,994	924		
COMMISSIONERS' DISTS. 1											
Bligh	5,000,000	788	7,143	305	70	1,313	52,940	193,221	_		
Clarence River	3,000,000	1.225	2,500	331	72	1,405	48,847	116,767	86		
Darling Downs	8,000,000	658	11,666	180	45	1,200	40,600	553,000	60		
Lachlan	10,000,000	2,198	5,000	2,046		4,386	130,594	355,600	791		
Laverpool Plains	10,000,000	2,110	5,000	_	233	3,946	130,081	341,465	-		
M.Leay River	2,000,000	466	5,000	440	52	584	17,128	250	706		
Maneroo	2,000,000	1,916	1,052	1,969	185	5,446	106,530	353,252	60:		
Moreton Bay	2,000,000	268	10,000	58	14	1,127	19,412	290,962	148		
Murrumbidgee	12,000,000	2,592	6,000	2,950	243	4,586	132,301	704,165	1,200		
New England	5,000,000	2,231	2,500	1,400	114	3,582	79,820	822,603	1,000		
Wellington	10,000,000	1,199	9,090	194	92	1,683	69,385	277,025	232		
THER DISTRICTS:-					- 1						
Gwydir	- 1	_	-	- 1		2,000	118,097	109,347	50		
Lower Darling	-			_		480	21,062	39,621	26		
Wide Bay	- 1		_	1	_	51	36	20,787			
Burnett	_	_	_ 1	_		372	6,409	204,734			
Maranoa	-	-	- 1		-	62	5,639	8,500			
Total	96,909,364	54,515		33,369	9,254	97,400	1,366,164	6,530,542	65,216		

labour market of New South Wales was overstocked, by the immigration of the last ten years; but the foregoing exposition of the United Kingdom to the United States the state of each county indicates the reverse. According to an able and interesting report from the emigration agent for New South Wales (F L. S. Merewether, Esq.), dated Sydney, 31st May, 1849, it appears to the amount of nearly one million sterling that the total number of assisted and unassisted immigrants into the Sydney and £16 per head. The details of this remark-Port Phillip districts of New South Wales, able fact are thus given in the official returns during each of the ten years between the laid before parliament 31st January, 1850:—

By some it has been supposed that the 1st of January, 1838, and 31st of December, 1848, was only 75,252, about one third of the number who proceed in one year from Of the 75,252 immigrants into New South Wales during those ten years, 60,614 persons were assisted by the income derived from the sales of crown lands in the colony. (£975,433), or at the rate of upwards of

				Assiste	d Immi	grants			l	Unassı	sted Im	migran	ta]]	
	Number landed Cost of Conveyance									Number Landed					
Year	Syd Dist	ne y rict	Port I Dist	Phillip rict	Total	Passage paid out	ties to	Total		lney trict	Port I Dist	Phillip rict	Total	Gross Total of Immi- grants	
	Above 14	Under 14	Above 14	Under 14		Colonial Funds	Various Officers		Above 14	Under 14	Above 14	Under 14			
1838 1839 1840 1841 1842 1843 1844 1845 1846	3,601 5,675 4,066 9,297 3,818 — 1,790 351	1,150 2,891 1,253 — 936 146	909 1	1,762 448 504	8,416 6,637 20,103 6,823 11 4,139 498	£124,512 133,847 100,641 313,490 97,568 18 60,821 6,897	10,541 6,217 17,477 5,612 	£131,269 144,388 106,858 330,968 103,180 18 63,808 7,159	1,454 1,165 822 417 333 327 412	126 351 163 286 369 145 68 128 75 103	95 413 449 490 115 50 78 67 230	55 130 191 140 49 13 59 3 71	1,328 2,133 1,849 2,380 2,164 1,131 548 598 472 816	7,430 10,549 8,486 22,483 8,987 1,142 4,687 1,096 472 816	
1848 Total	3,127	1,249	2,533 12,684	976 3,902		81,248 £919,047		£975,433		1,918	494 2,481	74	1,219	9,104 75,252	

Note—It is remarkable, all croumstances considered, with how few mischances this migration across 15,000 miles of cean has been carried on One highly respectable shipping firm of London, Messrs Marshall and Eddridge, have despatched to Australia in the eighteen months ending December, 1849, forty-three ships of 23,605 tons, containing 7,181 statute adults, without, I believe, a misfortune happening to any ship. The voyages have averaged 107 days to Sydney and the deaths have been only about 1½ per cent, which shows a degree of care highly commendable in the agents According to the official returns, it appears that the number of assisted emigrants who embarked from the United Kingdom for New South Wales, was 7,855, and that the number landed in the colony was 7,885, the increase by burths having exceeded by 30 the decrease caused by death. Thirty-two vessels were employed in the service, and the average contract rate paid by the government for each statute adult, was about £12 11s. The passage-money amounted altogether to £83,094, of which sum £1,846 was contributed by immigrants themselves, leaving £81,248 to be charged on the colonial immigration fund. Of the total 7,885 immigrants, 4,624 were from England, 1,483 from Scotland, and 1,778 from Ireland The proportion of males was 3,925, and of females 3,960. The number of these who could neither read nor write was 1,811, of whom 851 were under the age of four years. With regard to the religious persusions, the totals were—Church 1,311, of whom 851 were under the age of four years With regard to the religious persuasions, the totals were—Church of England, 3,801, Church of Scotland, 1,296, Wesleyans, 750, other Protestants, 711, Roman Catholics, 1,317, and

however, must be reserved for a distinct portion of this work. I shall therefore merely observe, that the cry still, in New South Wales, is for more labour; so far from the labour market being overstocked by the introduction of 75,000 persons in ten years, the demand in the several counties and squatting districts is extraordinary. In May, 1849, on the Liverpool plains, and in New England and other districts, instant employment was given, at the following rates of wages, with provisions and lodging; -To shepherds, £15 to £28; hut-keepers, £18

This important subject of emigration, penters, and wheelwrights, £35 to £50; and overseers, £40 to £60 per annum; women servants, £15 to £25 a year, and these rates with wheat at 4s. to 5s. per bushel, and meat at 2d. per lb.

The colonial government has established depôts for immigrants at Paramatta, Bathurst, Goulbourn, Maitland, and Moreton Bay; to any of which places immigrants may be conveyed at the public expense immediately on their arrival. At all the depôts the immigrants are provided with food and lodging until they receive such offers of employment as may be considered fair by to £22; farm labourers, £17 to £30; bul- the officers appointed to the superintendence lock drivers, £30; bricklayers, masons, car- of the depôts. I cannot, therefore, better

conclude this description of the several erent parts of the colony, for the first localities in New South Wales, than by quarter of the year 1849; and, although giving the following table, showing the somewhat voluminous, it is too important principal productions of each district, and to intending emigrants, and too illusthe demand for labour in them. This state-trainve of the condition of the various ment is compiled from returns furnished divisions of the territory, to be omitted, or by the benches of magistrates in the dif- even curtailed:-

Districts Freder othe		Principal Agricultural and other Productions of the District	Demand for Labourers, and description of Labourers required
Sydney	_	The chief productions are vegetables and fruits	The supply of mechanics and tradesmen is now kept up by the Colomal youths (sharp intelligent lads), who, after having completed their various periods of apprenticeship, enter the labour market, and are said to be clever and expert workinen Farm labourers and female domestic servants are in request.
WESTERN Paramatta	15	Hav wheat, green barley, and maize, grapes, oranges,	There is a great demand for all sorts of country labour
Windsor	34	lemons, and vegetables Wheat, maize, potatoes, and	All descriptions of country labour are in request, and
Penrith .	83	hav Wheat, barley, oats, maire, po tatoes, tobacco hay, grapes for making wine are grown to a considerable extent	a sufficient supply cannot be obtained Female domestic servants and general labourers may readily obtain employment, at a fair rate of wages Since the harrest commenced there has been a great scarcity of labour felt in this district, and farm labourers can readily obtain employment, at good wages, during the present season
Hartley	78	Wheat, potatoes, and oats	There is no particular searcity of labour in the dis- trict but shepherds and farm labourers are still in demand
Bathurst	113	Wheat and barley	There is still the same demand for servants of the fol- lowing descriptions vir—Shepherds, hutkrepers, farm labourers, cooks, housemuds, and general house servants Single men and women, or married couples without children, would obtain employment readily
Carcoar	144	Wheat, barley, oats, potatoes, hay	Farm labourers, shepherds, hutkeepers, and domestic servants, particularly female servants, are in request They are not to be hired at any wages
Frederick's Valley	152	Wheat, has, corn, and pota- toes There has been an abundant crop of wheat and has, but the potato and the corn crops will be a fail- ure, in consequence of the drought	Shepherds and hutkeepers are in request
Molong	163	Wheat, corn, hav, wool meat, and mineral productions	An additional supply of labourers of the following descriptions is still wanting Shepherds, watchmen stockmen, miners, and house servants, male and female
Binalong	205	Wheat, oats barley, maize,	Shepherds, watchmen for sheep, agricultural labourers,
Wellington	230	Wheat, maize and hay	blacksmiths, and house servants are in demand Shepherds, hutkeepers, house servants, and general
Dubbo	270	There is little or no agri- culture.	farm servants are in request The demand for labourers of the following descriptions is still urgent,—carpenters, stonemasons, stock men, hutkeepers, shepherds, sawyers, fencers, and farm labourers
Mudgee	150	Wheat, maze, &c .	Shepherds, hutkeepers, and house servants are in demand
Southern Liverpool	20	Wheat, hay, and maize	Female house servants are in great demand. They
Campbelltown	33	Hay, wheat, corn, and butter	arc not procurable in the district Farm and domestic servants, male and female, are in
Camden	39	Wheat, maire, hay, and dairy produce The culture of the vine is also considerable, and increasing yearly A good many horses are bred, and some sheep	urgent demand This district is amply supplied with mechanics, but there is a scarcity of the other kinds of labour Wages are decidedly on the rise. From the abun- dance of fertile land, and the proximity to the Syd- ney market, this district affords an opening for the comfortable settlement of a dense population. Dur- ing the last five years the number of inhabitants has doubled tistlef! There are also ample means for pub-
Picton	49	Wheat, maize, rye, oats, bar- ley, hay, butter, &c	he worship religious instruction, and education. All descriptions of country labourers are in request, chieft general farm servants such as ploughmen, labourers gardeners, milkmen, mowers, and thatchers

Districts.	Distances from Sydney in English miles.	Principal Agricultural and other Productions of the District	Demand for Labourers, and description of Labourers required.
WESTERN. Wollongong	64	Wheat, maize, oats, barley, potatoes, hay, and butter.	Steady, sober, and honest agricultural labourers and milkmen are much wanted in this district, also, female servants. Agricultural labour only is in request
Berrima	81	Wheat, oats, barley, pota- toes, hay, and all descrip-	Farm labourers and domestic servants are in request
Ката	88	tions of English grain Wheat, maize, potatoes, oats, barley, butter, cheese, honey, beef, and pork	Farm and house servants, and milkmen are in request
Bungoma	117	Wheat, barley, maize, oats, hay, potatoes, cheese, and butter.	Labourers of the following description are in request—Carpenters, wheelwrights, and blacksmiths, shepherds, farm labourers, and house servants, especially females
Marulan	108	Wheat, barley, maize, oats, hay, potatoes, cheese, and butter	Carpenters, wheelwrights, stonecutters, watchmen, and cooks, shepherds, labourers, house servants, espe-
Goulbourn	125	Wheat, maize, barley, oats, and potatoes	cially females, are in request Shepherds, farm and domestic servants, both male and female, are in request
Braidwood Shoalhaven	164 103	All kinds of grain Wheat, maize, potatoes, and dairy produce	All kinds of country labour are in request Labourers are very scarce and wages high in consequence Agricultural labourers and dairymen are most in request.
Broulee	209	Wheat and potatoes, princi- pally with maize, barley, and oats	Farm labourers and female servants of all work are in request It is impossible to procure female servants, in particular general house servants. There are no farm labourers to be got In harvest, or any other hurried time, the small settlers are obliged to assist each other
Cooma	251	Wheat, barley, potatoes, and oaten hay There is a good supply of the above this season, with the exception of the potatoes	Good house servants and shepherds are in demand, and would readily find employment in this district The labour in request is chiefly that required for pastoral and agricultural purposes
Eden	258	Wool and tallow, little or no grain of any description, potatoes and hay are the only articles of farm produce raised	Shepherds, stockmen, and hutkeepers, are in request
Queanbeyan	182	Wheat, barley, maize, pota- toes, and hay	Domestic servants of all descriptions are much required in this district
Yass	179	Wheat, maize, oats, barley, hay, potatoes, fruits, and vegetables	Labourers and servants of every description are in great request, and improvements are lying over for want of them
Tumut	225	Wheat, oats, hay, maize, and potatoes	The operations of the settlers are completely paralysed for want of labour Children from eight years o age to sixteen are engaged at wages from £12 to £20 per annum The labourers wanted are shepherds hutkeepers, farm and house servants, laundresses housemads, and nursemaids
Gundagaı	244	Wheat, maize, potatoes, and hay	Labour of every description is much wanted Waget are very little, if any, lower than last quarter The pinicipal demand is for stocknen, shepherds, hut keepers, watchmen, agricultural labourers, and domestics 4 few mechanics would meet with con- stant employment
Wagga Wagga .	308	Wheat, oaten hay, maize, in himited quantity, potatore to a himited extent, wool and tallow The soil, however, is capable of producing, in luxuriance, every description of crop by the medium of ordinary industry. Fruits of all kinds thrive well, and the vine, which has been latterly in troduced, promises to rank amongst our principal products.	The employers of labour in this district are all complaining of the very high rate of wages, and improve ments of every kind are neglected in consequence. Were wages low and labour abundant, the settler here could give employment to at least 500 fresh male labourers every year. There is now a deman in the district for carpenters, smiths, wheelwrights sawyers, brickmakers, shepherds, agricultural labourers, and domestic servants, male and female
Albury	. 379	Wheat, maize, barley, oats, grass, and oaten hay, pota- toes, &c	female domestic servants are in request
Moulamein	400	Sheep, cattle, and wool No agracultural productions	There is an ample field for shepherds, butkeepers, an others who will make themselves useful about sheep stations. The most helpless will find employment if he has only the use of his limbs and legs. The present demand is for shepherds, hutkeepers, and bush carpenters.

	Districts.	Distances from Sydney in English miles	Principal Agricultural and other Productions of the District	Demand for Labourers, and description of Labourers required
	Northern Brisbane Water	30	Maire, potatoes, onions; also,	The demand for labour has been gradually increasing since the commencement of 1845, and many people
			oranges, grapes, and other fruit.	would have men if they could get them The sum given to a labouring man does not, by any means, indicate the amount really paid by the employer for efficient service. There is abundant employment in the district for men who work by the job in the bush, chiefly on their own account, as sawyers and splitters, and who either sell their produce on the spot, or send it to Sydney, consequently, some of the best workmen are at work on their own account, and most of those employed on farms are in some way inefficient, which increases their wages virtually from 10 to 20 per cent. or more, by reason of the labour performed by them being below the average quantity or quality. The want of labour and high wages still operate in limiting the cultivation of land. We think that vinevard (for which
				the soil is, in many places, well adapted) would be extended if labour was not so high
	Macdonald River . Wollombi	66	Wheat, maize, barley, and potatoes	There is a great demand for general agricultural labourers in this district.
	Newcastle	70	Wheat, maize, potatoes, hay, grapes, &c	Male and female farm and domestic servants are in great demand
	Raymond Terrace	85	faise, wheat, barley, oaten hay, and lucerne, potatoes, beef, pork, poultry, butter, cheese, salt, cloth, leather, fruit, and wine	Agricultural labourers and female servants are in request
	Port Stephens .	91	Wheat, maize, barley, oats,	Shepherds, domestic servants, male and female.
	Dungog	150	potatoes Wheat, maize, potatoes, hay, tobacco,cheese, butter, bacon, hams, hides	Farm labourers, bullock drivers, stockmen, wheel- wrights, splitters, and fencers are in request
	Paterson	131	Wheat, maize, barley, millet, potatoes, tobacco, cheese, hay, fruit, and wine.	request
	Maitland	110	Wheat, maize, barley, oats, potatoes, hay, tobacco, fruits of all kinds	A slight reduction has taken place since the arrival of immigrants, but the demand for useful labourers of the following descriptions is still urgent— Males—labourers of all sorts, farm labourers, and shepherds Females—house-servants of all work, cooks, and laundresses
1	Singleton .	124	Wheat, maize, hay, tobacco, and grapes	
	Muswellbrook	156)	Wheat, marze, and hay	Domestic servants are much wanted, shepherds and labourers are also in request
	Merton Scone	170 f 182	It is not, generally speaking, an agricultural district, there are several vineyards.	The difficulty in obtaining labour is very great, and
,	Murrurandi	200	Wheat, maize, potatoes, and	
	Cassilis	335	Wool and hay	Shepherds and watchmen are principally in request
	Wee Was	250	Wool and fat rtock	Shepherds, hutkeepers, stockmen, and country me- chanics are in request
	Tamworth .	264	Wheat and maize	The demand for labour in the district is on the increase, and likely to continue so. The descriptions required are shepherds, stockmen, hutkeepers, farm labourers, and blacksmiths.
	Warnalds	290	Wheat and maize, but in quantities so very small as to be of no importance.	The recent immigration has not yet exercised any perceptible influence on the rate of wages in this district, the demand for labour still exceeds the supply to such an extent, as to occasion great loss and inconvenience to employers. Shepherds, bullock-drivers, house screams, and labourers of every description are in request
	Port Macquarie	278	Wheat, hay, maize, and pota- toes.	Farm labourers, shepherds, and house servants are in request Female servants are much wanted
	M'Lesy River .	250	Maize, wheat, a few potatoes, and a small quantity of to- bacco	There is demand for labour in the district, to which the supply is not equal, and a number of labourers of the undermentioned descriptions would find im- mediate employment at remunerating rate— stockmen, farm labourers, and bullock-drivers; and a few single females as general house ser- vants

Districts	Distances from Sydney in English miles	Principal Agricultural and other Productions of the District	Demand for Labourers and description of Labourers required
NORTHERN Wellingrove .	330	Wheat, potatoes, and corn	Although wages are about £3 to £4 less, it can only be effected by great risk in the increase of numbers of the flocks, occasional employment of blacks, and thus standing out against the exorbitant wages asked, waiting any opportunity to replace those who will not take any reduction The most urgent demand is for shepherds
Armidale	334	Wheat, barley, oats, maize, and potatoes	Shepherds, watchmen, labourers, and mechanics are in request
Tenterfield	334	Wheat, maize, and potatoes for local consumption, also, wool and tallow for expor- tation	Shepherds are most wanted, but farm labourers and mechanics are also in request
Tabulam Grafton	380 280	Maize and potatoes Wool, tallow, maize	Shepherds hutkeepers, and stockmen are in request Great scarcity of shepherds, stockmen farm labourers, bullock drivers, and house servants Good house servants are not to be obtained
Canning Downs	390	Maize, potatoes, wool, tallow	Many hundreds would find employment Shepherds, watchmen, joiners, carpenters, smiths, agricultural labourers, and domestic servants of both sexes
Warwick	406	Wool and tallow	Shepherds, watchmen, fencers, carpenters, black- smiths, wheelwrights, agricultural labourers and domestic servants, of both sexes are in request Many hundreds would find employment
Drayton	409	Maize	The demand for labourers, shepherds, and domestic servants is great, and large numbers would find immediate employment
Brisbane	450	The vegetable productions are chiefly maize, potatoes, and garden stuff, a very little oats for hav	Stockmen and shepherds are in request
Ipswich	470	Wool and tallow	Stockmen, shepherds bullock-drivers and hutkeepers are the descriptions of labourers in request

GEOLOGY AND SOIL -It would be unreasonthe geological formation of a country so newly discovered, and still so imperfectly known, but the valuable labours of Count Strzelecki, Sir Thomas Mitchell, Messrs Berry, Jukes, and others, have furnished much interesting data, from which the following statements are derived —The line of coast throughout the territory of New South Wales, presents in general an aspect of bold perpendicular cliffs of sandstone, lying in horizontal strata These cliffs are occasionally interrupted by sandy beaches, behind which the country is low, or undulating, the high land retiring to a considerable distance These spaces are supposed by Mr Berry to have formed, at no very remote period, the entrances of bays and arms of the sea, indeed in many parts they are still occupied by sandy beaches, extensive salt water lagoons, being separated from the ocean only by a bank of sand, through which the impetuous waves even now occasionally force a passage, as at Reid's Mistake, at Lake Macquarie, near horizontal Newcastle, and at Lake Alexandrina, at En-As a general remark, the counter bay on the west granitic.

Count Strzelecki, assuming it would apable to expect connected details concerning pear, that Australia, or at least some portion of it, was elevated by volcanic power, supposes that the incandescent granitic matter was the first to appear, after the breach of the sub-marine crust, that it was on the granitic talus that quartz rock and sienite forced their way to the surface, and that upon the latter rocks serpentine, porphyry. and greenstone made their appearance Thus about Bathurst, on the Blue mountain range, quartz rock overlaps granite, and on the Honey suckle range, porphyry overlaps sienite. on Mount Kosciuszko (in the south-west), granite is seen forming a base 2,000 feet above the sea, upon which sienite and quartz rock attain a further elevation of 4,500 feet There is a want of uniformity in the inclination of the uplifted stratified crust, at Mount Kosciuszko mica slate, and siliceous, and argillaceous slates, are vertical, and attain the heighth of 3,200 feet At Mane's range, between the rivers Murray and Murrumbidgee, the upheaved strata are nearly The stratified rocks occupy a small zone of New South Wales

Count Strzelecki observes that New South country east of the Blue mountains, may be Wales exhibits few records of irruptive said to be of a sandstone formation, and that igneous rocks, and preserves all its crystalline siliceous rocks, in addition to the sili-

cious sedimentary ones, which in the course of surface red, and impregnated with iron; in ages have accumulated upon its surface. He some places, however, it is white and sapostates that the stratified rocks from mica naceous, appearing under the form of pipeslate upwards, reach only to the variegated clay, containing frequently calcareous stones sandstone inclusively, which sandstone is incumbent on the coal deposits; and that the thickness of these stratified rocks, does not exceed 2,200 feet, of which sandstone constitutes 1,400 feet. The area of the crystalline, compared with that of the sedimentary rocks, is estimated as three to one; but in Van Diemen's Island as seven to one.

This accurate observer states that in New South Wales, the area of granite, protogene, hyalomicte, quartz rock, siemite, siliceous breccia, quartzose porphyry, siliceous slate, sandstone, and conglomerate, all containing above sixty per cent. of silica, is to the area of eurite, felspathic porphyry, greenstone, and basalt rocks, containing less than sixty per cent, as four to one, but in Van Diemen's Land, on the contrary, the area of the first division is to that of the second as one Of the crystalline rocks, granite, to three sienite, and quartz, predominate, the greater part of the coast range of mountains, and the elevated terraces or steppes, westward of those mountains, are composed of granite, which is supposed to extend far into the interior of Australia, in masses of mammillary, tuberous, globular, or botryoidal forms. In described by Baron Von Humboldt, in his a tendency to break into irregular polygons, some of the faces being curved, is "most extensively distributed in the interior of New South Wales."

The sandstone strata extend from the sea coast to the river Nepean, on the west Throughout this extent of country, the sandstone seems to spread like a level platform, and although the surface rises in hills and ridges, these seem to consist of a mass of clay, the surface of which has been worn into inequalities by the action of water. This circumstance, to some extent, accounts for the singular fact, that in New South Wales, the tops of the hills, which retain most of the original clay, are generally more fertile than the valleys, unless the latter contain alluvial deposits; and it is probably owing to a similar cause, that the valleys are cold and on its banks. bleak, while the tops of the hills are warm

resembling stalactites, evidently formed by aqueous deposition; at the depth of a few feet, it generally assumes the appearance of schistus, impregnated with sulphate of alumina, and sulphate of iron In the ravines are found coal-field schistus, with vegetable impressions; and also argillaceous iron ore

Westward, or beyond the Nepcan river, the sandstone strata are forced upwards, and extend from north to south, forming the lofty ridge of the Blue mountains; towards the north these mountains are sterile and rugged; towards the south, however, the sandstone is in many places covered or displaced by whinstone, which sometimes assumes the form of common, at other times of porphyritic trap In the latter form it is manifested through the well-watered and fertile county of Argyle.

On advancing further to the south and west, granite and limestone, both foliated and granular, are abundant, perforated in all directions with extensive subterraneous caverns, exactly similar, both in character and stalactite decoration, to those found in regions of a similar formation in Europe the country to the north-east of Wellington and in America. But both are frequently Valley, these granitic masses present a met with in detached quantities in the striking resemblance to those graphically northern and eastern parts of the colony; and a fine limestone formation occurs also to account of the Altai regions. Sir Thomas the north-westward of Sydney, at the head of Mitchell says that quartzose rock, exhibiting William's river. In some parts of the territory (as in Argyle) the hmestone passes into a beautiful close-grained marble, as white as that of Carrara; at Shoalhaven it is jet black, traversed by veins of white calcareous spar; between Wellington Valley and Boree there are innumerable varieties of finely-variegated marbles, all affording materials to numerous skilful artizans Granular limestone is extensively developed on the Upper and Lower Hunter, between Wellington and Mount Canoblas; between Cullen-bullen and Wolerowang; on the Wollondilly, in Westmoreland, and on the Shoalhaven river. are varieties of different minerals found in various places; Hunter's river flows for a considerable distance over rocks of jasper, beautiful agates, opal, and chalcedony; innumerable petrifactions are, moreover, found

Near the burning mountain of Wingen, and verdant. This clay is generally at the amorphous specimens of cornelian, white,

blueish-white and clouded colour, having spots of white dispersed throughout them. Wingen had their surfaces crested over with iron; some of those found at Mount Agate were crested with native copper, while others from the same locality presented a most beautiful auriferous appearance.

As it is desirable to throw every possible light on the geology of this interesting country, I give the following observations made by Mr. Allan Cunningham, concerning the strata seen to the north and east.

At the Wingen or burning mountain, the summit of the south-eastern side of the dividing range consists of greenstone slate, and the base of a quartzose conglomerate Liverpool plains, consist of a similar conglomerate. while the hills to the north of the plains are composed of a very finelygrained granite. Between the latitudes of 31° and 30°, the country gradually ascends from the level of the Liverpool plains, or 840 feet, to nearly 2,000 feet above the level of the sea, and presents a broken irregular surface, often traversed by low ridges of clay slate. To the north of 30° lat. the base of the ridges by which Stoddart's valley is bounded, consists of serpentine, their flanks and summit of hornstone, and the hills at the head of the valley, of clay slate In the bed of Peel's river, which crosses the northern extremity of the valley, a thin horizontal bed of calcareous sandstone was noticed, between strata of indurated clay or shale. The country for fifty miles to the north of Peel's river into Moreton bay, the first rock observed exhibits a moderately undulating surface, covered in some parts with fragments of cellular trap; and the hills which bound the river, is a quarry of pinkish claystone the route on the westward, as far as the porphyry, used for building. In the ravines parallel of 29° 10′, consist of a reddish coarsegrained sandstone, in nearly horizontal strata. veins of asbestos and magnetic iron. Sixty Beyond this point, towards the north-east, miles from Moreton bay, ledges of horn and a little to the north of 29° S. lat., the stone crop out in the banks; and in the banks of Mogo creek were found to be com- same part of the river, a considerable seam ing the same direction, the country for forty the stem of a fossil plant, presenting "conconglomerate. In the bed of a creek in on Bremer River, which falls into the Bris-

pinkish, and blue, have been found; also 28° 26' S. lat., and in the meridian of Paraangular fragments of ribbon and fortification matta (151° E. long.), a hard slaty rock was agates, and balls of agate, some of them noticed; and the country beyond it was filled with crystals, varying from the size of found to be composed, where it could be exa pea to that of a hen's egg; and others of a amined in the dry water-courses, of flinty In 28° 13' S. lat, a fertile district late. commences, extending for eighteen miles, or Several of the agates collected from Mount to the foot of the dividing range, in the parallel of 28°. At the base of these mounains, were procured specimens of basalt containing olivine: at the height of 1,877 feet above the level of the sea, the rock consisted of amygdaloid; and the extreme summit, 4,100 feet above Moreton bay, of a brickred cellular trap, the cells having an elongated form and parallel position.

In 29° S lat., a deep gorge is composed of clayslate, and traversed by a rapid stream, n the bed of which were noticed large boulders of the grey granite. During the next forty miles, the only rocks noticed were reddish granite, and fragments of basalt. In the low hills, which form the eastern side of 29° 26' S lat, large masses of a fine quartzose conglomerate occurred, and they were afterwards found to be very generally scattered over the adjacent country. boundary hills of Wilmot Valley are stated to be a fine-grained gray granite; and those which form the head of it, in 30° 11' S lat., of brownish porphyry, containing grains of quartz.

The geology of the country farther north, is equally striking. The western shores of Moreton bay, from the entrance of Pumicestone river, to Red Cliff point, are faced by a reef of considerable breadth, which at low water, is stated by Mr. Cunningham to exhibit a ledge of chalcedony. Pumice-stone has been found on different parts of the east coast of Australia.

In tracing the Brisbane river, which falls was talc slate or chlorite; and opposite the settlement, sixteen miles from the mouth of further up serpentine occurs, traversed by posed of a coarse friable sandstone. Pursu- of coal appears in its channel. A portion of miles presented a rugged surface, and the centric fibrous bands, and a longitudinal prevailing rocks were sandstone and clay foliated structure at right angles to the slate; but occasionally, the tops of the hills bands," was found in the vicinity of the formed low terraces, composed of a quartzose seam of coal. At "the Lamestone station,"

ment on the Brisbane, is the Birman range, granite.

Newcastle coal basin, are stated to be,-(blueish), with various impressions, forty- during the last two, the irruption of green-

twenty-three, total 201 feet The osseous breccia found in the caves at Wellington Valley, have been adverted to in the general view of Australia, at pages 398-9 New South Wales has passed through periods of terrestrial revolution precisely similar to those experienced in other parts of the the former existence of animals of whom we have no other record, and also of several Immense beds of seaof gigantic size. shells are found at various elevations above hills, in others imbedded in sandstone. Close to the banks of Hunter's river, layers of shells have been found of unexplored depth, and have long been used by the inhabitants in the manufacture of lime. fragments of trees. existing species, which latter are found on ing quartz rock, with an admixture of white

bane, were procured a series of specimens, the elevated beaches between Cape Liptrass which consisted of yellowish hornstone; in- and Portland bay. Basalt and its varieties durated white marl, resembling some of the occur at Port Stephens, the Upper and harder varieties of chalk, and containing im- Lower Hunter, and other places. The conmense masses of black flint; blueish-grey clusions at which count Strzelecki arrived. chalcedony passing into chert; and a gritty after a series of examinations of the coast yellowish limestone. A bed of coal has like- line of mountains in Eastern Australia, are wise been noticed in the Bremer, and traced —that the chain was upheaved during four from it to the Brisbane. To the south of distinct epochs, to a height varying from the limestone station is a remarkable hill, 1,000 to 6,500 feet above the sea level; that consisting of trap, called Mount Forbes, and the upheaving force, arising from volcanic fifty miles to the south of the penal settle- action, was exerted with different degrees of intensity, as shown by the varying heights of from which were obtained specimens of com- the peaks, but that it was uniform in direcpact quartz rock; and from Mount Lindsay, tion, ranging from north-east to south-west; likewise south of the Brisbane, specimens of that the lithological character of this chain, and of the spurs which belong to it, is chiefly The strata in the cliffs, containing the due to the presence of crystalline rocks, and that the irruption of granite, sienite, coal (the lowest of the deposit), three fect; hyalomicte, and protogene, took place at greenish sandstone, fifty, coal, three; green- the beginning of the first epoch; that of ish sandstone with blue veins, twenty-five, quartz and porphyries during the two first coal, five, clay rock (greyish), and shale epochs, and that of basalt and its varieties three; coal, five, cherts, gritstones, with stone continuing during the whole four. angular fragments of fluit intermixed with From this lithological character, and from thin veins of coal, fourteen, coal three, the geological phenomena found grouped conglomerate (the uppermost of the deposit), along its course, this mountain range may be considered as the Australian eastern axis of perturbation.

The Crystalline and Unstratified Rocks, mentioned by Strzelecki, as belonging to the Their structure appears to indicate that first epoch, are granite proper, porphyritic granite, glandular granite, protogene, siemite, hyalomicte, quartz rock, serpentine, and eurite; the stratified or sedimentary rocks, The bones found in the caves attest are mica slate or schist, silicious slate and argillite. The descriptions by which these several rocks may be known, are stated by similar in species to those now known, but the distinguished geologist to whom I am so largely indebted in this section.

Granite Proper.—Composed of equal prothe sea; in some places on the tops of portions of quartz, felspar, and mica; structure granular, dissemination of ingredients regular, colour reddish-grey. granite, oval-shaped masses of granular mica, tabular quartz, and tabular felspar. irregularly interspersed through a quartzose Some of the valleys, such as Dart Brook and paste. Porphyritic grante, quartz, and mica, Lake George, possess imperfectly fossilised with large oblong and irregular crystals of Elevated beaches in felspar, confusedly imbedded in the masses. horizontal beds and at various heights are Protogene, a confused crystallization of talc. disposed at wide intervals along the coast. felspar, and quartz, marked by an unequal At Lake King (Gipp's Land) they are seventy distribution of ingredients, and by the feet above the sea, composed of an indurated entire exclusion of mica. Colour greenishreddish clay and calcareous paste, containing white, sometimes inclining to red. Hyaloostrea and anomia, and different from the micte, a homogeneous, milky, or smoky-lookmica, to the entire exclusion of felspar. Sienite, a granular and massy structure, invariably composed of a vitreous and translucent quartz, and of hornblende, which is tries, the rock which forms the basis of the prismatic and of a dark blue green, at times intersected by veins of sulphuret of iron, by which the already beautiful appearance of the rock becomes yet more resplendent; the presence of sienite always indicates the proximity of granite. Quartz, in New South Wales, of a whitish or somewhat milky colour, sometimes found translucent and perfectly homogeneous. Eurite, composed entirely of felspar, laminated or grained; colour, a pale yellowish-red. inferior in hardness to quartz, adheres to the tongue, and exhales an argillaceous odour. Serpentine, colour sometimes emerald, sometimes leek-green, but never uniform throughout: externally it often shines with a resinous lustre, at the edges it is translucent; solid, semi-hard and brittle, fracture earthy. uneven, sometimes laminated, fragments irregular and splintery, feels unctuous, it is traversed by short, curved, and narrow veins of a white silky amianthus, the fibres of which are perpendicular to the direction of the vein

Mica, or Slate Schist —According to the varying proportions and the difference of colour of quartz and mica, which, combined, form mica slate, the shades are green, white, red, blue, brown, and yellow; structure Siliceous slate, usually grey, sometimes white, reddish, or vellowish, traversed by numerous veins of quartz, looks greasy, and is tough. Argillite, a greyishblack, with a bright silky lustre, substance opaque, with a smooth surface, structure foliated; adheres to the tongue, and yields a strong argillaceous odour: fragments tabular, thin, shining, and friable.

Mount P. P King, whose summit is 2,646 feet above the sea (see page 393), is described by Mitchell as having at its base, and on its sides, in large masses, the very compact felspathic rock which characterises the valley of the Darling This, he adds, has been considered a very fine-grained sandstone; but it is evidently an altered rock. Here, in contact with trap, it possessed the same tendency to break into irregular polygons, some of the faces of which were curved; one mass having been so tossed up, that its lower side lay uppermost, inclined at an angle That this is a hypogene of about 60°. rock, sometimes in contact with granite as well as with trap, is evident at Oxley's

Table Land, and other places. (Tropical Australia.)

In New South Wales, as in other counsoil may be known from the trees or her-Thus a dwarfish bage growing thereon. eucalypti, with glaucus-looking leaves, growing mostly in scrub, indicates a sandstone formation, while open grassy park-like tracts thinly interspersed with lofty eucalypti, characterise the secondary ranges of granite and porphyry. The limestone formation has on its superincumbent soil trees of lofty growth and large size. These marked features will account for the idea expressed by Captain Sturt, that the Australian trees seemed gregarious. In general the covering of sandstone is the common Australian clay, but over whinstone it is invariably a light black mould.

Of the productiveness of the Australian soils, there cannot be a doubt. Many farms have been annually cropped for twenty years without manuring; the eucalypti trees by shedding their bark, annually furnish an ample supply of alkalies to the soil, which has a degree of softness, coherence, and porosity, common to all virgin soils; a low specific gravity, and a proportion of organic to morganic matter, amounting to a third, and in some instances to a half of the whole The numerous places where carquantity. bonic acid gas escapes through the fissures of the earth in New South Wales, cause many of the rivers, particularly near their source, to be impregnated with this acid, and they are also charged with mineral salts. In frequent instances the waters of the colony pass through calcareous rocks, and carry with them dissolved lime, they are therefore very valuable for irrigation, which may be most extensively and usefully practised in Australia. Any one who has visited Malta, and seen the rich crops produced on an apparent barren sandstone formation, by irrigation, will recognise the great benefit which New South Wales would derive from pursuing the same course.

Mr. J. Pattison, a resident of twelve years' experience in New South Wales, and the author of a recent brochure on its resources and capabilities, says the country is capable of sustaining many millions of people by its agricultural products; for "there is abundance of land of the richest description." Speaking of the qualities of the soil, he :- "The produce, under a good sys-

tem of husbandry, is enormous, and would of soil considered apart from the vegetable stagger the credibility of those who have matter, the hygrometric water, and the loss not been eve-witnesses. The late Dr. Wilson, in the analysis, and expressed in their atomic R.N., obtained, at his estate in the county weight, are in the of Murray, eighty-five bushels of wheat per acre; and at Narren Gallen, near Yass, on the estate of Cavan, I have seen 700 bushels reaped from a field of fourteen acres, or equal to fifty bushels per acre." *

Count Strzelecki, after a minute and careful analysis of the soils of New South Wales and Van Diemen's Land, extending over forty soils in quality, furnishes the following as the mean of his investigations:-

Quality of Soils	Highest productive power	Lowest productav power
PHYSICAL CHARACTER		
Absorption of solar rays .	+13.4	+1421
Emission of heat	-25	-61
Capacity for moisture	+80	+36
Specific gravity	18	2.04
CHEMICAL CHARACTER -		
Soluble portions of 100 parts	30 23	8 53
Proximate constituents in 100		
parts		
Vegetable and animal matter	14 70	5 50
Water	7 88	3 71
Silica	54 32	69 99
Alumina	9 82	10 02
Peroxide of iron	3 18	4 48
Carbonate of hme	4 74	4.12
Sulphate of lime	2 33	0.08
Potash and soda	0.74	0 56
Chlorides	traces of	traces o
Magnesia	0 82	0 87
Metallic sulphurets and oxides	0 63	
Loss	0.84	0 67

The inferences which the analyser draws from these facts are-

1. That both the fertile and the sterile soils absorb on an average nearly the same amount of solar heat; but the fertile soil emits, through terrestrial radiation, an amount of heat two-thirds less than that vielded by the sterile soil.

2. The fertile soil absorbs more than double the quantity of moisture absorbed by

the sterile soil.

3. The solubility of both soils in hydrochloric acid is not equal; the fertile soil in 100 parts containing 30 parts of soluble, the sterile soil but eight.

4. The fertile soil possesses nearly three times as much of vegetable and animal mat-

ter as the sterile soil.

5. The mineral constituents of each kind

· New South Wales; its past, present, and future Condition: south Notes upon its Resources and Capabilities. London, published by Johnson and Hunter, 1849-p. 90.

High productive Soils.

Mineral Constituents	Parts.	Atomic weight	Proportion in Nos
Silica	70 93 =	0 122	30
Alumina	12 84 =	0.020	5
Peroxide of iron	4 15 =	0.004	1
Carbonate of lime .	6 25 ==	0 020	5
Sulphate of lime .	3.04 ==	0 007	1
Potash and Soda .	0 95	_	_
Magnesia	1.00		
Metallic oxides	0 87		_

Low productive Soils.

Mineral Constituents	Parts	Atomic weight	Proportion in Nos
Silica	77 70	0 132	26
Alumina	11 11	0.017	3
Peroxide of iron	4 94	0 005	1
Carbonate of lime	4 57	0 014	2
Sulphate of lime	0.08		_
Potash and soda	0.56		
Magnesia	0.87		
Matalla orides			

Thus it will be perceived that the fertile soils differ from the sterile, not only in the number of constituents, but in the proportion in which they are found to be combined. The productive quality of soils is influenced by the amount of absorption and emission of solar heat; when the proportion of absorption to emission is 5.76 1, it is highly favourable to agriculture; whenever it is 2.35 1. it is highly injurious. The extent of capacity of absorbing moisture is of course an important element in the successful prosecution of husbandry. The more or less soluble constituents determines the productive power of soils; as respects Australia, those that have thirty per cent. of soluble matter are best adapted for the former; those which have only eight are the least. The amount of vegetable matter in a soil appears to regulate the proportionate power of absorbing and of emitting heat, and of absorbing and of retaining atmospheric moisture. The importance of manuring, or, in other words, of feeding soils with the vegetable and other ingredients necessary for the food of plants. is therefore obvious; and some Australian cultivators now find their lands, after twenty years' successive cropping, without food or rest, reduced to the exhausted condition of an overworked animal, deprived of its sustenance and sleep.

tralia, on good soils, is from twenty to thirty position, and nearly at right angles to the bushels per acre, weighing from sixty to strata of the cliff, the trunk of another tree sixty-five pounds the bushel; in some dis- was found, finely grained, both specimens tricts forty and even fifty bushels have been being traversed by thin veins of chalcedony. obtained from an acre of land. Maize yields In the alternating strata of the coal, which forty to seventy bushels nett, according to runs generally in three parallel horizontal the quality of the soil, and the carefulness of beds, are found nodules of clay, ironstone, the culture. The potato gives two crops in and trunks and stems of arundinaceous the year, and green peas are gathered in winter as well as in summer.

with mineralogical treasures; gold, copper, the same mineral, the surface of which is and steel have been found, but the most traversed by square and variously shaped useful discovery yet made is coal, which ex- sections of the same, are seen on several 1sts in several districts, but especially in the parts of the shore, both in the face of the country south of Hunter's river, which is cliff parallel with the beds of coal, and exan extensive coal-field, and where, as previ- tending into the sea, forming the strand at ously stated, the sea cliffs present a most low water. Nor are these indications coninteresting section of this stratum. seams of coal are distinctly visible on the castle; thin beds of coal and iron may be abrupt face of the cliffs, forming the south seen along the banks of the Paramatta river, headland of the harbour of Newcastle, and and in other places. Coal abounds in the may be traced for nine miles, when they vicinity of the burning Mount Wingen, and abruptly terminate, suddenly bending down- near the Kingdon chain of ponds, also at wards, and sinking below the level of the Moreton Bay. From this place a long sandy beach tween the coal beds are strata of sandstone. and beds of clay slate, with vegetable impressions—sometimes, but more rarely, indurated claystone. Embedded in these strata, there is abundance of argillaceous iron ore; this is occasionally cellular and in layers, but for the most part it appears in branches, irregularly dispersed. The coal is decidedly of vegetable origin, the fibre of the wood being often quite distinct, while the vegetable impressions in the clay slate, under and over the coal, are singularly beautiful; some of these subterraneous plants appear to have been in full flower, so that a spiralis.

About three miles along the south coast adjacent districts. of Newcastle, in an upright position at

The average production of wheat in Aus-beneath the surface, lying in a horizontal plants in ironstone; in one place a narrow bed of ironstone, bearing impressions of MINERALOGY.—New South Wales abounds leaves, is remarkable; while thin laming of The fined to the district of the sea-shore at New-

The Newcastle (New South Wales) coal, and low land extend to the entrance of Lake analysed by count Strzelecki, gave-(one Macquarie (Reid's Mistake), the south head description)—charcoal, 62.8; bitumen, 25.2; of which rises into high cliffs, in which the earthy matter, 25 2. One pound of coal coal strata again present themselves. Be- yielded one foot 1.806 cubic inches of illuminating unpurified gas. The gaseous mixture contained in 100 volumes, was—sulphuretted hydrogen, 10; carbonic acid, 10; olefant gas, 17; carburetted hydrogen, 11, other inflammable gas, 52. Every 100 parts in weight, yielded-coke, 71.2; coal tar and ammoniacal liquor, 15.6; ultimate elements, the form of petrifactions of trees and deducting the earthy matter, carbon, 70.5; hydrogen, 20.4; nitrogen, 9.1. This coal burns easily, with a reddish flame, swells and agglutinates. It is of a black colour, even fracture, foliated structure, soft, and brittle; specific gravity, 1.31. The quality of this coal is about equal to the English Newcastle. coal, it is now being extensively raised by the skilful botanist might ascertain even their Australian Agricultural Company, who have species; and Mr. Berry thought he could a lease of the mines. A seam has been distinctly ascertain the leaf of the lamia recently found ten feet thick, and there are, probably, other large outcrops of coal in the

Copper ore of very rich quality, is found high-water mark, under the cliff and be- in great abundance, in the districts of Welneath a bed of coal, there was recently found lington the beds of ore are supposed to the butt of a petrified tree, which, on being extend for miles in every direction, and broken, presented a deep black appearance, according to the Hawkesbury Courier, "a as if passing into jet; and on the top of the high hill in the neighbourhood presents indicliff at Newcastle, embedded at about a foot cations of being a solid mass of metal." The

nated with iron.

tortoiseshell, with a plate of native gold

Rocky mountains, the Andes, the Himalaya, general axis from north to south

CLIMATE.—The seasons of New South Wales are the opposite of those of England, in the interior. June, July, and August. March, April, and that herds of wild cattle have a degree of

Molong Mining Company are raising large August are generally considered the rainy quantities of ore for shipment to England; months. The average temperature of spring there is a rich vein of copper near Bathurst. is 65° 5′, of summer 72°, of autumn 66°, and Iron abounds in various parts of the of winter 55°. The barometrical pressure is colony, and most of the smaller streams are about 29,94319 inches, and the average of impregnated with iron A few miles north the thermometer 64° Fahr. In Sydney, the by west of Mount Wingen, are stumps thermometer is rarely below 40°; in Paraof trees standing upright in the ground, matta, it is frequently down to 27° in winter; apparently petrified, and strongly impreg- and in my garden at Paramatta I have on a winter morning eaten frozen milk beneath It has been before stated, that in the an orange tree, from which I gathered the neighbourhood of Camden, a mine has been ripe and ripening fruit. Indeed, there is opened where steel, according to Mr. Pat- every variety of climate; by proceeding to tison, "is dug from the earth with little the Blue mountains a cold winter may be boring and of endless extent" He adds, enjoyed, or at Moreton Bay a warm one. that he saw a very handsome knife, made Of course, as the land rises above the level from the metal which had been worked with- of the ocean, a difference of temperature is out any overground preparation, by a Sydney felt, the winter at Bathurst, where the cutler, as a present for the governor, Sir luxury of snow is in its season enjoyed, Charles Fitzrov; the handle being of native being much colder than on the sea shore. Of the peculiarly salubrious climate of Gold, most probably, exists in large quan- Australia I can gratefully bear record, hav-Sir Thomas Mitchell, during his ing proceeded to Van Diemen's Island and recent visit to England, showed me beautiful New South Wales, from the east coast of specimens of gold embedded in white quartz, Africa, while suffering from a severe fever. and stated that it was also obtainable in acquired while exploring the rivers and grains or pieces of considerable extent He country adjacent to Mozambique; and in a discovered the gold region while exploring few months the fever and its distressing conthe interior, and observed, that he was sequences entirely disappeared. The air is unwilling to notify the region, lest the coloremarkably elastic; old persons arriving in nists should leave their flocks and herds to the Australian colonies from Europe, find go in search of gold. Many years since, that much of the hilarity of youth restored to distinguished geologist, Sir Roderick Murthem. Not more than five or six sick perchison predicted that gold would be extensions will be found in a community of twelve sively found in Australia, by reason of its or fifteen hundred; at some of the military geological formation, and the latitudinal stations seven years have elapsed without direction of its mountain range; for it is a the loss of a man; several colonists are stated singular fact, that the gold districts yet dis- to be upwards of 100 years of age; I saw covered are in mountains, with a latitudinal one woman who was said to be 125 years of rather than a meridianal direction; to which age; and the singularly horny texture of her it may be added, that the perturbing subter- skin seemed to confirm the almost incredible ranean forces of the earth, as manifested in the statement, yet she went about her daily work at a road-side inn In New South or from Kamtskatka to Borneo, have a Wales, during summer, I frequently slept in the open air, without the slightest injurious consequences; and during the expeditions of Mitchell, Sturt, Leichardt, Evre, and other January being the middle of summer, and explorers, they lived for months without any July of winter. The summer extends from other canopy than the clear blue Australian the first of November to the first of March; sky; and notwithstanding scanty and innuthe spring and autumn are brief, but well tritions or saline food, they enjoyed wonderdefined; the winter of a bracing coolness, fully good health, such as they could not with occasional frosts at Sydney, and snow probably have maintained under similar cir-The spring months are cumstances in any part of the world. September, October, and November; the said to be owing to the fineness of the climate summer, December, January, and February; that dogs do not go mad in Australia, that autumn. March, April, and May; winter, horses are seldom or never known to kick,

tameness unknown on the Pampas of South America, and that the descendants of Europeans are remarkable for an equanimity of temper, which is probably partly attributable to the salubrity of the climate.

The following table exhibits the range of the barometer and thermometer for each month in the year, the state of the hygrometer, and the prevailing winds, and weather at Sydney :-

	Barometer, 62 feet above the sea		Hygrometer		Radiator		Thermometer.			Weather					
Months.	Maximum	Mınimum.	Max	Min	Max	Mın	Max	Med	Mın	Winds.	Days Fine	Days Rain	Stormy	Cloudy	Stormy and Cloudy
Jan	30 300	29 430	68	9	101	63	91	754	60	SSE	15	4	12		_
Feb .	30 300	29 680	75	35	94	48	90	74	58	ESE	20	4	5		
March	30 490	29 580	74	10	83	42	83	713	60	E	19	10	2		_
April.	30 458	27 772	78	40	87	53	83	70	57	W	21	6		3	<u> </u>
May .	30 442	29 602	79	26	66	35	73	61 1	50	W.	23	3		5	l —
June .	30 350	29 290	78	25	67	32	62	52	42	SW.	20	1	_	9	_
July .	30 315	29 840	76	27	59	26	60	54	48	S.W	17	8	5		1
Aug.	30 248	29 488	78	29	67	31	66	55	44	SW.	14	9	7	_	1
Sept	30 380	29 520	79	18	83	34	67	494	42	NE	20	l —	8	_	2
Oct	30 200	29 300	80	20	86	42	82	691	57	NE	21	3	5		2
Nov	30 220	29 860	76	10	84	51	91	74	57	E &W	31	 —			
Dec	30 110	29 530	72	30	96	59	87	75	63	NE.	20	-	10	-	1
Year	30.490	29 290	80	9	101	26	91	_	28	_	241	48	54	17	7

According to a meteorological register kept for five years, at the south head of Port with a port to the northward and another to Jackson, a naked sandstone cliff, exposed the southward, thusto high calorific effects from solar radiation. the extreme range of the barometer was 1.140 inch, and its mean range 1.0594 inch, or, in round numbers, about one inch to one-The same general law which influences the barometer in Europe, operates in Australia; the mercury rises with the polar and falls with the equatorial wind; i.e., in Europe a northerly wind would cause an elevation of the barometer; in Australia a southerly wind produces the same effect, in both hemispheres an equatorial wind would cause a fall.

The annual mean of the external shade of the barometer at the same place, was-

	1840	1841	1842	1843	1844
	1010	TOAT	10%2	1040	1011
For the year.	63.186	64 656	62 72	62 73	61 49
April	67 23	67 66	61.46	63 62	60 31
October	68.16	62.76	63 47	61.07	61.12
Summer		_	68 390	67 987	66 731
Winter	_		57 055	57 473	56 245
Difference.			11.335	10 514	10.486

Note -April corresponds to mid-autumn in England, October to mid-spring

Annual Mean Temperature at Port Jackson

Years	Summer	Winter.	Difference.
1842 1843 1844	68.390 67.987 66.731	57 055 57.473 56.245	11.355 10.514 10.486
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Sydney (Port Jackson) may be compared

Thermometrical Range	Port Macquarie, Lat 31° 25		Port Phillip, Let 38° 18'
Summer —			
Maximum	88 3	81 9	90 6
Minimum	618	590	488
Fluctuation	26 5	29 9	418
Mean	750	73 9	69 4
Winter —		l]
Maximum	753	73 3	69 B
Minimum	468	453	36 9
Fluctuation	28 5	28 0	32 9
Mean	61.0	59.3	53 3
Annual Mean .	68.0	66 6	613
Annual Fluctuation	27.5	28 2	373
Warmest Month	Nov	Nov.	Nov.
Coldest Month .	August	July	July

The registers from which the above are taken were kept for the three years ending with 1842. It will be observed that the highest annual fluctuation of the three stations is at Port Phillip, viz, 37.3; but at Quebec it is, 59; at St. Petersburgh, 57; at New York, 55; Buda, 44; at Warsaw, 43.2; at Philadelphia, 43.3; at Vienna, 43; Copenhagen and Zurich, 38.9, Milan, 38.4.

In the southern hemisphere snow is perpetual at 6,000 feet above the sea, in Europe at 10,000 feet. This may be partly attributed to the great extent of ocean in the south, and the absence of any intervening

whereby there is at least a difference of five the respective number of days, at South degrees of latitude in regard to temperature. Head, Port Jackson, 240 feet above the Considerable allowance must also be made mean tide level:for the direction, intensity, and thermometrical condition of different currents of air. Thus, in ascending Mount Kosciuszko, in the Australian Alps, Count Strzelecki found the stratum of air at 3,000 feet much colder than that at the elevation of 6.500 feet. also at Mount Roa (Sandwich Islands) three different currents were noted, one at Byron's bay, light from the S.E., temperature 86°; one at an elevation of 4,000 feet, strong from the westward, temperature 55°; and one at 6,000 feet, brisk N.W., temperature 670 A hall storm on Ben Lomond in Van Diemen's Land was observed to originate in a stratum of air far below the point of congelation, and moving between an elevation of 800 and 5,000 feet, e., between Ben Lomond, in a temperature of 56°, and the Vale of Avoca, 4,200 feet lower down in 80°. This storm was succeeded by a polar wind. At the Cordilleras in Chili snow has been found melting at 15,000 feet elevation, while it was unaltered at 10,000 feet. So also rain sometimes falls in Australia when the temperature near the earth is below the freezing point. My own theory of these phenomena is that heat is produced by the electricity emanating from the sun, and the magnetism contained in the earth being brought into contact; the sun itself being not a body of fire, but an evolver of the electric fluid, which on being poured perpendicularly on the earth, elicits terrestrial magnetism, and heat is the product. Hence, at a certain distance from the earth, even within the torrid zone, there is no caloric, but a region of perpetual snow, as intensely cold as at the arctic circle, where also the rays of the sun fall only obliquely, and not direct.

It is probably this constant evolvement of heat from the surface of the earth, which causes the unceasing oscillations of the atmospheric currents, not only affected by the increasing or decreasing declination of the sun, but also by a different cause, i.e., an upper current of cold air, descending to one of warmer temperature nearer to the earth, it displaces, and is in its turn displaced when the oxygenized or electric matter with which support of animal and vegetable life.

land between the south pole and Australia, the total quantities registered as fallen, with

Year.	Number of Inches	Number of Days
1840 (9 months) .	49 65	108
1841	76 31	142
1842	48 32	137
1843	62 78	168
1844	70.67	157
Total	307.73	712

out of, and comprehending a period of four years and nine months = 1,736 days.

Two extraordinary falls of rain have occurred during this period, viz., one of 20.12 inches, on 29th April, 1841, during heavy squalls from E.N.E.-E.S E.: the other, 20.41 inches, on 15th October, 1844, wind between S.E. and S.W.

Strzelecki gives the annexed return for New South Wales and Van Diemen's Island, which includes 8,730 days of observation, brought to the term of averages for every season at each station :-

Station	Sum- mer	Winter	Annual Quan- tity	Average number of mehes
New South Wales Port Macquarie Port Jackson . Port Phillip	37 58 24 42 13 25	25 10 28 00 17 47	62 68 52 42 30 72	48 60
Van Diemen's Island: Woolnorth Circular Head . Port Arthur .	19.68 11 31 16 94	29.07 24 11 17.75	43 75 35 42 44 69	41 28

Rain sometimes pours down in continuous torrents in Australia; one fall, during twenty-four hours, at Port Jackson, amounted to twenty-five inches. Mitchell, Sturt, and other explorers found marks of extraordinary floods in the Nammoy and other rivers; ten to fifteen feet above the ordinary level of a river is not an unusual height during a season of rain. The above record of rain annually falling, will dissipate a prevailing idea that but little moisture exists in Australia; the average annual fall in London, is 22.19 inches, in New South Wales, 48 inches; in Van Diemen's Island, 41 inches per annum.

It must, however, be admitted, that with it was charged has been expended in the a comparatively high temperature and thirsty soil, Australia requires a far larger amount of Rain.—The quantity which falls in Aus- moisture than England, and that the effect is tralia is considerable; the following shows more beneficial with a smaller quantity, in the latter-named country, than that derived tion and configuration of the land. At Port from a larger quantity in the former region. At Port Macquarie, where the heat of summer is intense, more rain falls during that that of equatorial; at Port Phillip, the equaseason (thirty-seven inches), than in the whole year at Port Phillip (thirty inches), where the climate is less torrid, and the land less exposed to the pareling effects of the hot winds. It may be, also, that there is a greater amount of absorption of solar rays, and radiation, or emission of heat, in New South Wales-in some parts of Australia—than in others; for it is stated by Strzelecki, that on some soils all the early crops are invariably injured by the frost, while on other soils such injury never takes place.

The prevailing directions of the winds at

Sydney are thus indicated :-

Wind's Direction	n		Morning	Noon	Evening
North			4	7	23
North-north-east			-	11	11
North-east			12	129	109
East-north-east .				11	5
East			4	3	8
East-south-east .			4 1	2	5
South-east			9	45	70
South-south-east			8	27	13
		-	i	5	4
South by East . South			29	31	15
South by West .	•	•	3	2	4
South-south-west	·	-	8	11	8
South-west	•		109	35	45
West-south-west	•	•	42	5	3
West by South .	•	•	4	2	ĭ
West		•	118	10	8
			2	10	0
West by North . West-north-west	•	•	6		3
	•				19
North-west	٠		4	16	
North-north-west			1	8	5
North by West			_		2

During the summer months a regular sea breeze sets in daily, and refreshes the inhabitants along the coast. The direction, humidity, and siccidity of the winds in Australia, are, doubtless, influenced by the general laws which govern the atmospheric circulation; but these laws are modified by various local circumstances, such as the extent and form of the island-continent. and the vastness of the surrounding ocean Winds from the northerly and southerly quarters are the most numerous; in winter, on an average of 100 winds, 60 proceed from the southerly quarter, making the proportion of the polar to the equatorial, as 3:1; in summer, of 100 winds, 42 are from the northerly quarter—polar to equatorial, 1:2. These proportions vary at Port Phillip and velocity sometimes exceeds a regular gale; other stations owing, probably, to the posi-

Jackson the winter is marked by the prevalence of polar winds, and the summer by torial prevail in winter, and the polar in summer; and in Van Diemen's Island the equatorial winds prevail during both summer and winter.

The hot winds of Australia have engaged the attention of geologists, as well as of meteorologists; they are supposed to originate in the central deserts. The intense heat of these winds raises the thermometer, in the shade, to 117°, or even 120°, Fahr.; the grass becomes dry, like hay; the fig is destroyed; the red and blue grape lose their colour and watery elements; green leaves lose their colour, turn yellow, and wither; and the promising harvest of the agriculturalist is frequently ruined. Westward of the Blue mountain range, the temperature of a summer day is increased by this wind 40°; on the eastward of the range, from 25° to 30°. The effects of this wind on the animal frame, are stated, on the authority of captain Sturt. I have, however, myself, ridden for the greater part of the day, in New South Wales, during the prevalence of these siroccos, and felt less fatigue than from a slight exertion during the rainy season in Bengal. In the latter instance, the atmosphere was saturated with moisture; in the former, the air was totally deprived of all Count Strzelecki experienced humidity the hot wind with great violence sixty miles at sea, in the parallel of Sydney, and found the sails of the ship covered with an impalpable sand, containing one-fourth of aluminous and three-fourths of silicious and metallic matter; he also experienced it at the top of Ben Lomond, at an elevation of 5,000 feet, but did not feel it at 3,000 feet lower, to the windward. It does not appear that this current of heated air is confined to any particular altitude, but rushes from a lower to a higher stratum of air, according to circumstances. Not unfrequently, during the prevalence of this wind, the high clouds, cirrus, and strata, at once disappear, while the lower remain unchanged; I noticed, also, that at night the air was filled with what is termed "sheet lightning," which exhibited sometimes the beautiful coruscations of the aurora borealis.

The mean direction of this wind in New South Wales is from the north-west, and its occasionally it has a ricochet movement, thus---

or appears produced by a rotation on a set of horizontal axes, thus— 000000000

There are no noxious gases in these hot winds, and they do not exercise any deleterious effect on the health of man: they bear some affinity to the hot winds expemenced in the Mediterranean, in Egypt, whether these all belong to a common system parison:-

of atmospheric circulation, or are caused in the several countries by local circumstances, it is not easy to decide authoritatively; and my own impression is, that the form, extent, and latitude of the regions where they prevail—the characteristics of the soil, and the quantity and nature of the vegetation, all exercise a powerful influence in the production of hot winds during summer.

A good idea of the climate of Australia Arabia, Persia, Bombay, and Mexico; but may be formed from the following com-

Station	Summer	Winter	Annual Mean	Thermometrical Fluctuation
Port Macquarie, classed with Port Jackson, ditto Port Phillip, ditto	Florence, Naples	Cairo	Messina	

winter, that part of the Mediterranean between the coasts of Spain, Italy, France, and Algiers, extending to Tunis and Cairo. It is probable that the extension of cultivation, the pernicious custom adopted by cent. Europeans, of burning the surface of the land, to obtain a new crop of grasses, and the extensive forest conflagrations caused by the carelessness of the aborngmes in scattering fire, or by the friction of dry trees, have contributed to increase the mean annual temperature of Australia since its colonization.

Rapid growth, and early development of the intellectual as well as physical structure, characterize human life in New South Wales. especially among females. At fifteen, a girl possesses all the charms, and many of the graces, of womanhood; but it must be admitted, that at the age of thirty, her bloom has passed away, although the vigour of existence is unimpaired. The springs of life seem to attain a rejuvenescence in those arriving from Europe. Numerous instances occur of persons arriving in the colony at sixty, and upwards, who acquired new vigour. and attained a hundred years of age.

Although we are still ignorant of the almost recondite laws which govern the increase or decrease of life, I cannot but consider that the progressive augmentation of female over male births, the lesser proportion of female to male deaths, and the annually decreasing mortality of both sexes, as positive and convincing proofs of the adaptation of a climate for the dwellingplace of man. On this subject various deaths is not more than half of this.

The summer represents that of western data will be found in the chapter on popu-Europe, between 41° and 55° N. lat; the lation. Between 1836 and 1846, the proportion of females to males had more than doubled. In the year 1844, the net increase of female births over the year 1843, was 7.81 per cent; that of males, only 2 88 per This indicates a positive increase. The comparative mortality is equally remarkable. In 1844, the deaths of males, in proportion to the whole male population, was one in 78; of females, only one in 89.24. In proportion to the births of males, the deaths of males was one in 3.62; whilst those of females was only one in 5.2. In 1844, the deaths were in the ratio of 32 to 100 births: in 1844, 27 deaths to 100 births. The relative annual mortality in New South Wales, from 1828 to 1840, one in 55.15: in 1841, one in 62 36: in 1842, one in 5885: in 1843, one in 73.19. in 1844, one in 81.98. The average mortality in England is about one in 53 to the official returns, the mortality of the colony has undergone an actual and relative decrease since 1842.

The proportions of the births to the deaths is very remarkable; there is not one death to three births; in England there are two deaths to three births.

According to the registered returns, which are not very perfect, the numbers of births in New South Wales were in the following proportions to the numbers of deaths :-

1846 . . . 332 | Births to 100 deaths. . 341)

In England, the proportion of births to

The proportion of births and deaths throughout the year, to the whole population living at the end of it, was:—

In England, the births have averaged 32, and the deaths 22, to 1,000 hving.

The rate of mortality in 1848 was 1 in 85. In England it is 1 in 47; in Canada, 1 in 49; in the United States, 1 in 37.

Colonel Tulloch, who has registered many valuable observations, connected with the health and duration of life at the different stations of the British army, informs me that he considers the salubrity of Australia quite on a par with that of the United Kıngdom. For instance, the mortality of troops serving in the various garrisons of Great Britain and Ireland is about one-anda-half per cent annually; and the casualties of every denomination of a regiment of the line, from the period of its embarkation from England, and during the whole of its service in the widely scattered posts of Australia, Van Diemen's Island, and New Zealand, is no more than one-and-a-half per cent. may on these grounds be said that the mortality is less in Australia than in England

I have been favoured by Colonel Tulloch with the following comparative statements of the mortality among the British troops serving in different parts of the empire. This table shews a great saving of life, during the last ten years. Other circumstances as well as climate, have their influence on the duration of the life of soldiers, such as the locality of the barracks, the employment of the troops, and the congregating of men in large masses.

Average Mortality per thousand of White Troops annually

Colomes.	For 20 yrs ending in 1836	For 10 yrs ending in 1846
New South Wales	14	11 ,
Windward and Leeward Islands	78 15	$68\frac{7}{10}$
Jamaica	$121\frac{3}{10}$	6610
Gibraltar	2110	1010
Malta	16 18	14 1 6
Ionian Islands	2510	1510
Bermudas	28 1 0	2918
Nova Scotia and New Brunswick	1470	13
Canada	1610	$12\frac{6}{10}$
Newfoundland	14	910
St. Helena	3410	1516
Cape of Good Hope	13 10	13
Mauritius	2710	2410
Cevlon	69 18	4110

In the year 1849 the ratio of mortality among the white troops in our different colonies, was as follows:—

In Australia, 8, British Guiana, 14.2; Trinidad, 33; Tobago, 98.6, Grenada, 12.3; St. Vincent's, 6, Barbadoes, 128.8; St. Lucia, 174, Domnica, 40.4, Antigua, 10.9; St. Kitt's, 19.4, Windward and Leeward combined, 68.4; Jamaica, 48.3, Gibraltar, 8.4, Malta, 30.1, Ionian Islands, 23.1; Bermuda, 8.4, Newfoundland, 10.3; Nova Scotia and New Brunswick, 19.7, Canada, 15.6; St. Helena, 8.4, Cape of Good Hope, 13.3, the Mauritius, 14.6; Ceylon, 21.5, Madras, 22.4; Bengal, 61.3, Bombay, 26.6

Comparing the foregoing mortality with that of the troops in the United Kingdom, the superiority of the Australian climate will be manifest;—

Average Mortality per thausand of Troops employed.

United Kingdom	For 7 years previous to 1836	For 10 yrs ending in 1846.
Household Cavalry Dragoon Guards and Dragoons Foot Guards	$14\frac{5}{10}$ $14\frac{3}{10}$ $21\frac{6}{10}$ $18\frac{5}{10}$	$ \begin{array}{r} 11\frac{1}{10} \\ 13\frac{7}{10} \\ 20\frac{4}{10} \\ 17\frac{9}{10} \end{array} $

The maladies to which flesh is heir assume a milder type in Australia than in Europe; and it cannot be said that there are any endemic complaints. The diseases most prevalent in the six principal gaols of the colony in 1848, were—those of the brain and nerves, 75; circulatory organs, 20; respiratory organs, 154, alimentary canal, 282, hepatic, 9; eyes, 63; skin, 35; cellular texture, 28; fevers, 10; rheumatic, 84; dropsy, 1; scorbutic, 31; ulcers, 85; pregnancy and parturition, 6, wounds and accidents, 36, herma, 1; teeth, 11; vermin, 25; other diseases, 119; chil-Total, 1,158. The deaths during dren, 31. the year were—males, 13; females, 1. Total, 14. I venture to say, that in none of I venture to say, that in none of the hospitals attached to any of the gaols or poor-houses in England, would 1,158 cases of disease similar to the above be treated so successfully. No cases of Asiatic cholera have occurred in Australia Different forms of mania have presented themselves within the last few years, and the malady is increasing in New South Wales.

It would be very desirable if the excellent hospitals which exist at Sydney, Paramatta, and other towns, would publish periodical statements of the number and description of the different diseases treated, and of the mortality in each establishment. This would form a striking corroborative proof of the remarkable salubrity of the Australian clime.

CHAPTER III.

POPULATION OF NEW SOUTH WALES-FREE AND BOND, PROGRESSIVE AUGMEN-TATION SINCE 1788, STATE OF RELIGION, EDUCATION, AND CRIME.

This territory, when first occupied by the British, on the 26th January, 1788, was plete. The increase has been as follows:thinly peopled by a dark-coloured race of aboriginal tribes, whose appearance, character, manners, and customs will be described in a subsequent portion of this work. In the present chapter, therefore, attention will be directed to the numbers and condition of the Anglo-Saxon Australians in New South Wales.

The six transports which sailed from England, 13th May, 1787, for the foundation of the colony of New South Wales, contained the embryo from which the present population of the province, aided by immigration, has been formed The transport, Alexander, contained 210 men convicts, the Scarborough, 210 ditto; the Friendship, 80 men, and 24 women, convicts; the Charlotte, 100 men, and 24 women, convicts; the Prince of Wales, 100; and the Lady Penrhyn, 102 women convicts. Total, 608 male, and 250 female convicts. Two convicts on board the Alexander received a pardon before sailing. The grand total which sailed was stated to be 828. guard of marines was placed on board of each ship, and numbered, with officers, 212 There were twenty-eight women-wives of marines (who were to form the garrison of the new colony), carrying with them seventeen children. Emigration from England was studiously discouraged for several years; but owing to the number of convicts sent out, and the fineness of the climate, the population rapidly increased. According to a parliamentary return of 1812, the state of the colony in 1810 was—(1). Civil department, victualled, men, 37; women, 1; chil- female population will be perceived from the dren, 3: (2). Military department, men, 1.416; women, 219; children, 414. (3). Free female emigration, but from the large propersons, victualled, men, 307; women, 183, children, 198: (4). Prisoners, victualled from tion which I observed in Australia pervaded the public stores, men, 1,132; women, 151; children, 154.—total number victualled from public stores, 4,277: (5). People not victualled from public stores, men, 1,906; women, 1,644; children, 1,938: settlers not victualled from public stores, men, 715; women, 22. Total number of souls in the an old established country, fully peopled, a settlement, 10,452.

The early censuses are said to be incom-

Year	Population	Year	Population.
1788	1,030	1833	60,861
1810	10,452	1836	77,096
1821	29,783	1841	120,856
1828	36,598	1846	154,534

The estimate to 31st December, 1848, 18 220,474. The number of inhabitants, (including the Port Phillip district,) may now be quoted, in round numbers, at a quarter of a million.

In a return laid before the Legislative Council of New South Wales by the able colonial secretary, Mr. Deas Thompson, on the 12th June, 1849, and by Mr Mansfield's analysis of the census of 1841, the increase of the population, male and female, since 1821, is thus shewn --

Years	Adults		Children	Total
1 cars	Males	Females	Cimaren	10021
1821 1828 1833 1836 1839 1840 1841 1842 1843 1844	21,693 27,611 44,688 87,298 63,784 70,021 75,474 76,528 76,147 74,912 74,951	8,090 8,987 16,173 43,558 21,998 25,476 35,546 35,762 35,474 36,170 36,223	Not separated 28,604 33,966 40,649 47,599 53,920 62,295 70,382	29,783 36,598 60,861 130,856 114,386 129,463 149,669 159,889 165,541 173,377 181,556
1846 1847 1848	82,847 83,572 86,302	42,287 41,809 44,562	71,570 79,628 89,610	196,704 205,009 220,474

The progressive augmentation of the foregoing table; this did not arise solely from portion of female to male births—a proporthe whole range of domestic animals. It seems to be a law of population, that where there is room in a new country, and the command to "increase and multiply" is not perverted by polygamy, there is always a larger proportion of female than male births, but in check is put to an injurious increase by a greater proportion of male than female births. Under a system of slavery there is also a preponderance of male over female births; from which it naturally results that a slave or bond population, if unrecruited by fresh supplies, would in process of time become extinct.

What proportion of the population of New South Wales consisted of convicts and of their descendants it is not possible to state. The number of convicts annually sent from Great Britain to New South Wales, from 1787 to 1843, was—

Years.	Males	Females	Total
1787	184	100	284
1789	994	245	1,239
1791	2,121	286	2,407
1792	314	54	368
1793	1		1
1794	35	59	94
1795	1	131	132
1796	206		206
1797	313	67	380
1798	395		395
1799		53	53
1800	503	90	593
1801	203	94	297
1802	543	130	673
1803	494	136	630
1805	1	118	119
1806	272	34	306
1807	189	113	302
1808	202	175	377
1809	200	62	262
1810	200	120	320
1811	400	99	499
1812	400	167	567
1813	500	119	619
1814	800	232	1,032
1815	693	101	794
1816	1,186	101	1,287
1817	1.040	101	1,141
1818	1,912	128	2,040
1819	1,421	148	1,569
1820	1,726	121	1,847
1821	946	171	1,117
1822	856	57	913
1823	491	119	610
1824	1,004	81	1,085
1825	602	59	661
1826	844	88	932
1827	1,401	260	1,661
1828	1,732	298	2,030
1829	2,278	220	2,498
1830	1,751	337	2,088
1831	1,605	250	1,855
1832	1,992	206	2,198
1833	2,310	420	2,730
1834	2,336	144	2,480
1835	2,146	298	2,444
1836	2,029	259	2,088
1837	1,734	140	1,874
1838	1,716	344	2,060
1839	1,096	143	1,239
1840	575	213	788
1843	199		199
Total	47,092	7,491	54,383

It appears that during a period of forty-eight years the number of convicts sent to New South Wales was, of males 43,506, of females 6,791. total 50,297. This is exclusive of convicts sent to Van Diemen's Island, to which separate transportation commenced in 1817, and from that year to 1837 the number of convicts sent to that island was, males 24,785, females 2,974: total 27,759; making a grand total deported to Australasia during the period, of males 68,291, females 9,765 = 78,056.

Transportation to New South Wales, except the deportation of a few exiles from Pentonville and other places, ceased in the year 1839, and the total number of convicts transported to that settlement may be stated in round numbers at, males 52,000, females 8,706 = 60,706. The convict population is

thus stated since 1820 :--

Years	Males	Females	Total
1820	18,067	2,189	20,256
1833	21,845	2,698	24,543
1836	25,254	2,577	27,831
1841	23,844	3,133	26,977
1846	9.653	902	10.555

The proportion of free to bond population, of each sex and age, in the colony is thus shewn in 1828 and 1833:—

	Free Males		1	Free Fe	males		9 8
	Above Under	[otal		Above 12 Years	12	•	Female Convicts
828 833	10621 2835 1 17542 5256 2	13456 22798	1415 21845	4538 8522	2936 49 3 1	7474 13453	1513 2698

In 1834 the number of "emancipists" in the colony was about 16,000, and the remainder of the free population was about 21,000.

The country to which the several convicts belonged, is not stated for the entire period. From 1828 to 1836, those from Great Britain and Ireland were —

		Males	Females	Total
Great Britain Ireland	: :	17,876 8,079		20,070 10,020

During the eight years ending 1836, the number of persons free by servitude was, males 7,788, females 1,363 = 9,151. Absolutely pardoned, males 62, females 2 = 68. Conditionally pardoned, males 543, females 22 = 565.

The following abstracts of the population on the 2nd March, 1846, in each of the Counties and Commissioners' Districts comprised within the Sydney or Middle District, shows the number of free and bond persons

of each sex, distinguishing those born in the colony, or arrived free from other places, and also the number of bond persons holding tickets of leave, in government employment, and in private assignment respectively:—

	Males	Free	Ma	les Bo	md	Female	s Free	Females Bond			Totals		
Counties in New South Wales	Born in the Colony or arrived free	Other free Persons	Holding Tickets of Leave	In Government Employment	In private Assign- ment	Born in the Colony or arrived free	Other free Persons	Holding Tickets of Leave	In Government Employment	In private Assign- ment.	Males	Females	General Total
Argyle Bathurst. Bligh. Brisbane. Camden Cook Cumberland Durham. Georgaana Gloucester Hunter King. Macquarie Murray Northumberland Phillip Roxburgh St. Vincent Wellington Westmoreland Stanley (Moreton Bay) Auckland (Twofold Bay)	1758 1555 186 488 3347 1282 32348 3112 325 1040 466 572 5036 229 859 748 315 597 716	916 239 232 186 372 217 513 1720 143 466 340 288 322 190	448 128 1180 409 60 187 41 119 219 289 597 54 177 186 100 72 128	2 15 1 1 10 137 1138 2 - - 1 294 1 338 - - - - 1 81 - -	15 24 22 166 222 5 231 33 333 11 4 622 64 8 8 3 7 7 2	1650 1418 160 430 3081 1316 30764 2869 864 453 524 580 814 5035 179 746 744 225 519 455	200 148 17 37 251 142 1957 180 31 37 71 53 89 473 27 88 41 27 20 28	16 18 1 2 25 11 209 26 4 3 3 1 1 10 14 62 1 12 8 7 6 6 1 1 2		6 6 11 14 6 132 9 2 3 1 14 22 3 1 1 1 1 1 1 1	3039 2799 420 936 4952 2122 40242 4470 637 1492 695 1067 1327 1803 7750 432 1504 1308 711 995 1122 753	1872 1592 178 470 3371 1476 33296 316 907 495 598 646 918 5585 209 849 794 259 580 477 335	4911 4391 598 1406 8323 3598 75534 953 2399 1190 1665 1973 2721 13335 641 2353 2102 970 1575 1599
Total	56986	15569	5411	2022	588	53415	4010	439	238	205	80576	58307	138883
Commissioners' Districts beyond the													
Bligh	250 541 245 799 670 144 757 87 1003 707 373	242 236 583 813 99 447 95 648 691	71 71 64 176 261 71 104 39 160 339 119	6 6 7 - 1 4 2	5 15 3 9 28 20 6 3 8 15 11	166 337 100 577 296 111 554 42 717 428 205	6 18 4 50 32 12 32 2 52 44 23	1 1 2 3 1 4 - 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		- 2 - 1 2 5 - 1 - 1 1 12	615 869 552 1569 1778 340 1321 224 1820 1756 969	356 106 629 332 126 595 44 772 475 230	788 1225 658 2198 2110 466 1916 268 2592 2231 1199
Total Population of the Middle District	62562	20174	6886	2056	711	56948	4285	457	238	217	92389	62145	154534

It will be perceived from the foregoing, that the free males born in the colony, or who have arrived free, are nearly equal in number to the same class of females—viz., 62,562 and 56,948; but that great disproportion of sex exists between the emancipist class—viz., 20,174 males to 4,285 females; also between the bond—viz., 9,653 males, and 912 females.

The total males to females in the colony, in 1846, was 92,389 males to 62,145 females. This difference is every year diminishing: and the laudable efforts of the Right. Hon. Sydney Herbert to afford to distressed sempstresses, and other impoverished women, a means of emigrating to Australia, must eventually benefit the colony. Whatever doubts may

be cast on this benevolent project, I have no fear that injury can accrue from the measure; for it is well known, generally speaking, that as men find in New South Wales "honesty is the best policy," so also women, removed from the snares of vice and temptations which beset them at every step in England, find in New South Wales, that "virtue is its own reward," and there are many instances of thorough reclamation of character in Austraha of persons who, if they had remained at home, would have trodden with fearful in 1842, 59; in 1843, 60; in 1844, 63. rapidity the downward road to ruin.

limits of location, the following comparison with those of 1841, 1836, and 1833 —

Cour	tie	s			1846	1841	1836	1833
Argyle .					4911	3397	241	2850
Bathurst					4391	2465	1729	3454
Bligh .					598	546	376	
Brisbane					1406	1560	1378	229
Camden .					8323	6286	3161	2648
Cook .					3598	2892	2052	1465
Cumberland					73538	58108	3979	35844
Durham					7551	6238	3208	3303
Georgiana					953	749	575	
Gloucester					2399	1424	854	583
Hunter .					1190	999	808	
King					1665	598	544	
Macquarie					1973	2409	1300	744
Murray .					2721	2111	1725	510
Northumber	laı	ıd			13325	9975	5016	4606
Phillip .					641	453	24	
Roxburgh					3353	1520	1980	
St Vincent					2120	1762	592	445
Wellington					970	510	530	445
Westmorela	nd				1575	619	575	1903
Stanley (1	Mo:	ret	on)	4 500	0105	00 =0	1010
Bay, &c)				Ì	1599	2187	3858	1218
	T ₁	vof	old	}	1088			

Total 139891 106808 72,72 59,802

The census of 2nd March, 1846, of the Commissioners' Districts beyond the limits of location, presents the following comparison with those of 1841, 1836, and 1833 —

Districts	1846	1841	1836	1833
Bligh Clarence River Darling Downs Lachlan Liverpool Plains M'Leay River Monaroo Moreton Bay Murrumbidgee New England Wellington	788 1225 658 2198 2110 466 1916 268 2592 2231 1199	No details.	No details.	Not occupied.
Total	15651	9980	2968	_

The gross increase of population during the five years ending March, 1846, was, males, 27,471; females, 31,282 = 58,753. Increase per cent, during the same period, males, 31.46, females, 71.84 = 44.89. Centesimal proportion of the sexes -in 1846. males, 6053; females, 3947 = 100, in 1841, males, 66.71; females, 33.29 = 100. The inequality of the sexes is undergoing a gradual correction. The proportion of females to 100 males was-1836, 30, in 1841, 50,

The number of free immigrants who ar-The census of 1846, presents within the rived in New South Wales and Port Phillip since the formation of the colony is not ascertamable Between 1828 and 1848, the numbers are imperfectly stated thus -

Years	Men	Women	Children	Total
1828	200	122	274	596
1829	306	133	145	564
1830	166	70	73	309
1831	189	98	174	457
1832	819	706	481	2,006
1833	838	1,146	701	2,685
1834	571	596	397	1,564
1835	551	644	233	1.428
1836	524	807	290	1,621
1837	1.769	1.138	1,365	4.275
1838	3,631	2,152	3,077	8,840
1839	5,843	3,719	3,796	13,358
1840	5,159	5,457	2,056	12,662
1841				
1842				6,823
1843				2,558
1844				2,181
1845				496
1846				111
1847				6,563
1848				13,977

Between 1841 and 1847, viz., for seven years the immigrants who arrived in New South Wales, consisted of 9,210 English, 2,606 Scotch, and 20,896 Irish = 32,709. No emigrants were sent out to New South Wales, by her Majesty's Emigration Commissioners from 1844 to 1846.

The census of the province taken on 2nd March, 1846, affords satisfactory evidence of the progress and position of the colonists, and furnishes an excellent basis for the statistical supplement which it is my intention to issue every seven years, in order that the value of the original work may be preserved unimpaired The following details, when examined with the accompanying map, will, doubtless, prove interesting in this - country to those who have friends and relatives in the colony.

D AGE IN NEW SOUTH WALES-1846.

Convicts free by servitude, absolutely and conditionally pardoned, during 1847 and 1848.

Years	Absolutely pardoned	Cond	itionally pare	loned	Free by servitude			
10018	Males Females Total	Males	Fema les	Total	Males.	Females	Total.	
1847 1848		1,020 2,226	33 66	1,053 2,292	588 275	215 77	803 352	
Total.		3,246	99	3,345	863	292	1155	

freed 4,509, or more than 2,250 per annum during ten months of 1846, the total libera- province would be free.

On the 2nd March, 1846, the total bond, tons to the end of 1848 would be about or convict, population in the colony, was 6,500, which, at that period, would leave 10,565. During 1847 and 1848 there were 4,000 still in bond—a number that would be entirely obliterated in the years 1849 and Allowing 2,000 for the number liberated 1850—when the whole population of the

in the Counties in the Sydney or Middle District, and in the cts beyond the limits of Location, in 1846.

		Females					Totals						
Counties			14 and under 21	21 and inder 45	45 and up- wards	Under 7 Years	7 and under 14			45 and up- wards	Males	Fe- males	Gene- ral Total
Argyle	621	251	159	1587	421	620	220	153	755	124	3039	1872	4911
Bathurst	480	224	142	1624	329	516	211	128	655	82	2799	1592	4391
Bligh	59	22	9	295	35	54	23	13	81	7	420	178	598
Brisbane	169	46	30	595	96	175	49	27	203	16	936	470	1406
Camden	1088	585	356	2181	742	1103	506	312	1200	250	4952	3371	8323
Cook	413	272	168	868	401	454	271	147	468	136	2122	1476	3598
Cumberland	8617	4744		8096	5650	8599		3975	13430			33296	73538
Durham	1045	472		2157	489	1124		223	1148	172	4470	3084	7554
Georgiana	98	59	31	358	91	111	43	25	118	19	637	316	953
Gloucester	324	169	118	744	137	300		94	315	58	1492	907	2399
Hunter .	143	84	64	267	137	163	94	45	156	37	695	495	1190
King	206	95	67	547	152	206		53	233	30	1067	598	1665
Macquarie .	197	84	58	700	288	229		52	243	15	1327	646	1973
Murray	337	132	112	985	237	286	134	63	376	59	1803	918	2721
Northumberland	1719	881	509	3726	915		862	517	2113	332	7750	5585	13335
Phillip	71	28	15	265	53	77	22	17	87	6	432	209	641
Roxburgh	294	127	72	789	222	262	119	93	319	56	1504	849	2353
St Vincent	226	116	78	695	193	259		67	293	61	1308	794	2102
Wellington	91	26	17	469	108	86	26	18	111	18	711	259	970
Westmoreland	199	112	58	511	115	200	87	35	219	39	995	580	1575
Stanley, Moreton Bay	167	70	36	755	94	151	53	27	230	16	1122	477	1599
Auckland, Twofold Bay	143	49	34	446	81	97	43	18	130	47	753	335	1088
Total	16707	8648	5575	38660	10986	16833	8314	6102	22883	4175	80576	58307	138883
Commissioners' Districts, beyond the Limits of Location.													
Bligh	56	23	14	458	64	63	25	6	71	8	615		788
Clarence River	118	47	34	598	72	114	40	29	167	6	869		1225
Darling Downs	32	8	19	436	57	38	6	13	44	5	552	106	658
Lachlan	235	107	77	983	167	222	77	45	261	24	1569	629	2198
Liverpool Plains	117	55	77	1358	171	115	28	21	158	10	1778	332	2110
M'Leay River	87	10	21	225	47	41	13	11	60	1	340	126	466
Menaroo	222	82	93	765	159		78	44	233	38	1321	595	1916
Moreton Bay	11	2	6	191	14	17	1	1	25		224	44	268
Murrumbidgee	266	110	78	1175	181	250	90	69	335		1820	772	2592
New England	163	86	70	1273	164	152	55	37	216		1756	475	2231
Wellington	103	30	22	689	125	87	25	8	108	2	969	230	1199
Total	1370		511	8151	1221	1301	438	284	1678	137	11813	3838	15651
Total Population of Middle District,	18077	9208		16811	9572	18134	8752	6386	24561	4312	92389	62145	154534
						'	<u>'</u>				<u>' </u>		

Number of Married and Single Persons of each Sex in the Countres in the Sydney or Middle District, and in the Commissioners' Districts beyond the limits of Location in 1846—

Counties	Ma	les	Females		Tot	General	
	Married	Single	Married	Single	Males	Females	Total
Argyle	823	2,216	822	1,050	3,039	1,872	4,911
Bathurst	648	2,151	674	918	2,799	1,592	4,391
Bligh	86	334	86	92	420	178	598
Brisbane	218	718	217	253	936	470	1,406
Camden	1,424	3,528	1,369	2,002	4,952	3,371	8,323
Cook	555	1,567	530	946	2,122	1,476	3,598
Cumberland	13,090	27,152	13,319	19,977	40,242	33,296	73,538
Durham	1,260	3,210	1,256	1,828	4,470	3,084	7,554
Georgiana	124	513	130	186	637	316	953
Gloucester	370	1,122	352	555	1,492	907	2,399
Hunter	179	516	190	305	695	495	1,190
King	267	800	258	340	1,067	598	1,665
Macquarie	314	1.013	251	395	1,327	646	1.973
Murray	409	1,394	403	515	1,803	918	2,721
Northumberland	2,330	5,420	2,271	3,314	7,750	5,585	13,335
Phillip	96	336	93	116	432	209	641
Roxburgh	359	1,145	352	497	1,504	849	2,353
St Vincent	348	960	336	458	1,308	794	2,102
Wellington	134	577	132	127	711	259	970
Westmoreland	249	746	248	332	995	580	1,575
Stanley (Moreton Bay)	251	871	237	240	1.122	477	1.599
Auckland (Twofold Bay)	185	568	173	162	753	335	1,088
Total	23,719	56,857	23,699	34,608	80,576	58,307	138,883
Commissioners' Districts beyond the limits of Location							
Bligh	84	531	78	95	615	173	788
Bligh	188	681	169	187	869	356	1,225
Darling Downs	68	484	55	51	552	106	658
Lachlan	309	1,260	292	337	1,569	629	2,198
Liverpool Plains	184	1,594	170	162	1,778	332	2,110
M'Leay River	67	273	61	65	340	126	466
Menaroo ,	250	1,071	259	336	1,321	595	1 916
Moreton Bay	21	203	23	21	224	44	268
Murrumbidgee	334	1,486	342	430	1,820	772	2,592
New England	226	1,530	223	252	1,756	475	2,231
Wellington	123	846	113	117	969	230	1,199
Total	1,54	9,959	1,785	2,053	11,813	3,838	15,651
Total Population of Middle District	25 573	66,816	25 484	36,661	92,389	62,145	154,534

Number of Married and Unmarried Persons in the City of Sydney and its Suburbs Males Females Totals Name of City County in General and Suburb which situated Total Married Males Females Single Married Single City of Sydney . 38,358 Cumberland . 7,072 20,810 17,548 13,738 7,208 10,340 Balmain* Ditto 247 435 255 400 682 655 1,337 241 Camperdown* Ditto 50 75 52 64 125 116 Suburbs of the City. Canterbury* Ditto 43 85 43 47 128 90 218 Chippendale*. Ditto 85 134 88 109 219 197 416 Glebe, the* Ditto 323 310 533 522 1.055 212 210 Newtown* Ditto 257 374 252 332 631 584 1,215 O'Connell Town* 25 Ditto 17 8 15 40 Paddington* . Ditto 250 179 225 422 404 826 172 Redfern* Ditto 177 260 183 245 437 428 865 St Leonard's*† Ditto 115 223 189 412 74 149 74 Surry Hills* . Ditto 33 33 121 86 207 88 53 8,428 24,356 Total 15,928 8,587 12,247 20.834 45,190

Note.—The mark (*) attached to the name of any suburb indicates that it is situated on private property. This mark (†) includes the inhabitants of the Government Township of St Leonard's, as well as the residents on the adjoining suburbs

Number of Married and Unmarried Persons in the several Towns and Villages in New South Wales.

Name of Town	County in	Mal	les	Fem	ales	Tota	als	General
or Village	which situated	Married.	Single	Married	Single	Males	Females	Total
Aılsa	Bligh	3	2	4	4	5	0	13
Albury	Unnamed	11	32	11	11	43	22	65
Appin	Cumberland .	20	47	19	39	67	58	125
Bathurst	Bathurst	303	800	320	460	1,103	780	1,883
Berrima	Camden	79	178	54	66	257	120	377
Boyd*	Auckland .	27	65	23	10	92	33	125
Braidwood .	St Vincent	40	79	40	47	119	87	206
Brisbane, North	Stanley	109	296	101	108	405	209	614
Brisbane, South .	Ditto	70	139	67	70	209	137	346
Broulee	St Vincent	3	6	8	10	9	13	22
Bungendore .	Murray	4	15	4	7	19	11	30
Bungonia	Argyle	20	33	19	26	53	45	98
Camden*	Camden	40	100	40	62	140	102	242
Campbelltown	Cumberland	91	204	89	157	295	246	641
Carcoar	Bathurst	15	28	16	14	43	30	73
Clarence Town .	Durham	14	36	14	29	50	43	93
Dalkeith* .	Bligh	7	26	7	9	33	16	49
Dungog	Duiham	22	47	21	34	69	55	124
Eden	Auckland	10	30	10	13	40	23	63
Gosford	Northumberland	10	25	11	7	35	18	53
Goulburn .	Argyle	218	468	220	265	686	485	1,171
Gundagai .	Unnamed	16	39	15	17	55	32	87
Gunning	King	20	40	20	15	60	35	98
Hartley	Cook	11	20	11	20	31	31	62
Haydonton*	Brisbane	17	57	21	22	74	43	117
Ipswich	Stanley	20	44	19	20	64	39	103
Kelso*	Roxburg	85	173	85	121	258	206	464
	Combaniand	115	247	90	149	362	239	501
Liverpool	Cumberland	144	455	79	141	599	220	819
Macquarie Maitland, East	Macquarie Northumberland	152	337	150	271	489	421	910
		433	917	442			1,059	2,409
Maitland, West* Merriwa	Ditto .	5	24	942	617	1,350 29	1,000	2,408
	Brisbane	25	47	28	29	72	57	129
Montefiores*	Bligh	120		125			301	633
Morpeth*	Northumberland		214 68		176	33 4 90	41	131
Mudgee	Wellington	22		22	19			55
Murrurundi .	Brisbane	11	24	9	8	35	17	
Muswellbrook .	Durham	42	81	40	45	123	85	200
Narellan	Cumberland	4	4	2	202	8	6	1.
Newcastle	Northumberland	248	769	192	262	1,017	454	1,47
Nurea	Unnamed	9	14	10	11	23	21	44
Parramatta	Cumberland	612	1,649	787	1,406	2,261	2,193	4,45
Paterson	Durham	23	51	23	44	74	67	14
Penrith*	Cumberland	56	115	52	68	171	120	29
Petersham*	Ditto	23	43	22	34	66	56	12
Picton	Camden	24	48	23	25	72	48	120
Pitt Town	Cumberland	35	74	37	83	109	120	22
Queanbeyan	Murray	40	88	35	45	128	80	20
Raymond Terrace	Gloucester	45	100	44	74	145	118	26
Richmond	Cumberland	122	277	128	219	399	347	74
Scone	Brisbane	22	47	21	27	69	48	11
Singleton*	Northumberland	109	200	116	140	309	256	56
St Alban's	Ditto .	4	4	4	9	8	13	2
St. Aubin's*	Brisbane	27	30	22	24	57	46	10
Stockton*	Gloucester	18	48	18	28	66	46	11
Windsor	Cumberland	248	682	268	481	930	749	1,67
Wollombi	Northumberland	16	25	15	20	41	235	7
Wollongong	Camden	86	201	90	138	287	228	51
Yass	Murray and King	46	124	50	54	170	104	27
Total Population	in Country Towns	4,171	10,036	4,216	6,319	14,207	10,535	24,74
Add City of Syd	ney and Suburbs.	8,428	15,928	8,587	12,247	24,356	20,834	45,19
	in N S. Wales .	12,599	25,964	12,803	18,566	38,563	31,369	69,93

Note - This mark (*) attached to the name of any suburb, town, or village, indicates that it is situated on private property

Statement, showing the Increase of the Population by Births and Immigration respectively, in each year, from 1839 to 1848

Years	Gross	Increase	Total	Gross	Decrease	Net	Population	
rears	Births	Immigration	1000	Deaths	Departures	Increase		
1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849	2,270 2,836 3,304 4,233 5,204 6,333 7,182 7,946 8,522 7,061 8,881 8,746	7,700 11,913 15,651 13,226 19,938 11,649 5,493 8,809 5,968 6,673 6,563 13,977	9,970 14,749 18,955 17,459 25,142 17,982 12,675 16,755 14,490 13,744 15,444 22,723	1,799 2,104 2,481 2,382 2,894 2,717 2,293 2,122 2,128 2,128 2,128 2,688 2,574	2,998 5,045 4,730 5,054 4,183 4,514 4,474 4,751	8,171 12,645 16,474 15,077 19,250 10,220 5,652 9,581 8,179 6,339 8,282 7,235	77,096 85,267 97,912 114,386 129,463 149,669 159,889 165,541 173,377 181,556 196,704 204,986 205,009	

Marriages, Births, and Deaths, in New South Wale. since 1832

Years	Marrı- ages	Birt	hs	Total	Dea	ths	Total
1832 1833 1834 1835 1836 1837 1838 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849	619 698 750 744 916 970 1,157 1,631 1,924 2,564 1,831 1,813 1,837 1,796 1,852 1,801	Males 655 769 927 931 1,047 1,159 1,450 1,678 2,119 2,631 3,160 3,689 4,338 4,536 4,546 4,454	Fem 599 791 930 872 1,073 1,111 1,386 2,114 2,573 3,173 3,493 3,947 4,184 3,532 4,345 4,345 4,262	1,254 1,867 1,830 2,120 2,270 2,836 3,304 4,233 5,204 6,333 7,182 7,946 8,522 7,061 8,811 8,746	Males 650 850 827 990 1,131 1,217 1,392 1,609 1,517 1,750 1,753 1,446 1,362 1,245 1,321 1,646 1,584	Fem 275 345 337 463 497 582 712 872 865 1,144 964 847 760 883 804 1,042 990	880 1,160 1,164 1,463 1,628 1,799 2,144 2,481 2,389 2,717 2,293 2,122 2,128 2,126 2,688 2,574
Total	23,677	41,101	40,011	81,139	22,290	12,382	34,622

By the last census of 1846, the population of New South Wales and of Port Phillip, was as follows —

	Males	Females	Total
Within limits of Location-			
Middle District	80,576	58,307	138,883
Port Phillip District	13,234	10,234	23,468
Beyond limits of Location-	10,001	10,201	20,200
Middle District	11.813	3,838	15.651
Port Phillip District	6,950	2,461	9.411
Crews of colonial vessels	2.196	2,101	2,196
Crews of colonial vessels	2,130		2,130
Total	114,769	78,840	189,609
Population of 1841	87,298	43,558	130,856
Increase	27,471	31,282	58,573
Centesimal increase during the same period	31 46	71 81	44 89
Average annual centesimal in-	6 29	14 36	
Centesimal proportion of 1846	60 53	39 47	100
the sexes \$1841	66 71	33,29	100

From the 1st January to 31st December, 1848, the two districts of New South Wales and Port Phillip presented the following results.—

	Male	Female	Total
Increase by—			
Immigration . Births	8,452 4.484	5,525 4,262	13,977 8,746
	,	,	•
Total increase	12,936	9,787	22,723
Decrease by-			
Deaths	1,584	990	2,574
Departures .	3,534	1,217	4,751
Total decrease	5,118	2,207	7,325
Summary—			
Total increase	12,936	9,787	22,723
Total decrease .	5,118	2,207	7,325
Net increase	7,818	7,580	15,398
Population, Dec 31, 184		81,119	205,009

Dec 31, 1848 131,708 88,699 220,407

According to the census of 1846, the classification of occupations showed—commerce, trade, and manufactures, 9,264; agriculturists, 13,952; grazing shepherds, 13,565; stockmen, &c., 5,532, horticulture, 943; other labourers, 12,104; mechanics and artizans, 10,769; domestic servants, males, 4,181, females, 6,455; clerical profession, 185, legal, &c., 271, medical, 343, other educated persons, 1,737, alms-people, pensioners, paupers, &c., 1,687; all other occupations, 7,816; residue of population 98,602 = 187,413.

The places where born were thus noted — In the colony, males, 27,361; females, 27,492

England, males, 33,756; females, 13,493: Wales, males, 364; females, 177: Ireland, males, 22,445; females, 15,976: Scotland, males, 6,409; females, 3,970: other Brutsh dominons, males, 1,153; females, 752: foreign countries, males, 901; females, 285.

The dwellings of the inhabitants were thus classified in 1846—Houses of stone or brick, 9,955; wood, 16,511; shingled, 17,012; slated, 500. Total, 26,563. Inhabited, 24,848. Of the latter, the county of Cumberland, containing Sydney, has 12,939 houses.

Religion.—According to the census of 1836, there were—of Protestants, 77,096; of Roman Catholics, 21,898; Jews, 477. Judge Burton states, that in 1836, among the convicts, 18,500 were Protestants, 9,000 Roman Catholics, and 331 Jews. In 1846.

the religious denominations of the inhabitants of New South Wales, alone, was:—Church of England, 79,801; Church of Scotland, 16,053; Wesleyans, 6,338; other Protestants, 3,681; Roman Catholics, 47,187; Jews, 969; Mahomedans and Pagans, 135; other persons, 361. For the year ending 31st December, 1848, there were:—

Religious Denominations	Births	Marriages	Deaths
Church of England . Church of Scotland . Wesleyan Methodists Independents . Baptists . Roman Catholics . Jews	3,790 930 483 85 32 3,387 39	720 504 77 27 5 462 6	1,405 225 81 29 812 14
Totals	8,746	1,801	2,574

Persons of each of the under-mentioned Reliquous Denominations, on 2nd March, 1846.

Counties.	Church of England	Church of Scotland	Wesleyan Method- ısts	Other Protes- tants	Roman Catholics	Jews	Mahome- dans and Pagans	Other Persua- sions	General Total
Argyle Bathurst Bligh Brisbane	2,334 2,013 297 792 4,250	622 466 48 170 1,007	64 380 — 8 321	26 40 7 7 7 62	1,797 1,464 245 426 2,629	59 23 — 1 24	2 4 - 2 19	7 1 1 —	4,911 4,391 598 1,406 8,323
Cook Cumberland Durham Georgiana	2,074 38,344 3,867 448	272 6,458 1,417 136	183 3,696 313 5	10 2,857 76 3	1,036 21,216 1,862 361	12 688 10	82 2	5 247 7 —	3,598 73,538 7,554 953
Gloucester	1,396 783 821 1,136	387 64 89 222	99 40 10 43	14 1 14 27	500 299 730 519	1 2 1 20		- 1 - 3	2,399 1,190 1,665 1,973
Murray Northumberland . Phillip Roxburgh	1,290 6,849 356 1,231	328 1,301 88 311	817 2 64	26 152 — 28	1,043 4,117 191 717	24 53 1	4 8 3 1	38 	2,721 13,335 641 2,353
St Vincent	943 590 619	377 61 144 209	5 9 136 24	6 4 3 57	766 305 672 497	- 1 9	1 - - 22	1 1 - 11	2,102 970 1,575 1,599
Aucland, Twofold Bay Total	71,780	152	6,229	3,439	328	938	111	337	1,088
Commissioners' Dis- tricts beyond the Limits of Location				_					
Bligh	368 760 341 956 1,175	165 119 128 190 188	15 14 10	1 15 2 21 106	243 300 178 1,010 625	1 2 1 6 2	12 6 1	2 2 2 - 4	788 1,225 658 2,198 2,110
M'Leay River . Monaroo Moreton Bay Murrumbidgee	303 899 111 1,401	26 194 58 218	2 10 2 29	1 15 2 46	127 784 95 893	13 3	=	6 1 - 2	466 1,916 268 2,592
New England Wellington	1,147 569 8,030	326 112 	17 4 109	30 3 242	703 509 5,467	31	3 24	24	2,231 1,199 15,651
Total Pop of New South Wales.	79,810	16,053	6,338	3,681	47,187	969	135	361	154,534

The ecclesiastical establishment for 1848 was: Church of England—Diocese of Sydney, forty-two rectors or ministers, with salaries averaging £200 per annum, and, in almost every instance, a parsonage (or an allowance of £50 a-year), and also a glebe of forty acres.

Diocese of Newcastle.—Sixteen rectors or ministers, with salaries and allowances as in the Sydney diocese. There are two ministers beyond the settled districts, with £200

a-vear each.

Church of Scotland.—Seventeen ministers, with salaries averaging £150 a-year each, and, in several instances, a house and glebe.

Wesleyan.—Nine ministers, with each £150 or £200 a-year, and a house. No

glebe.

Independent.—Five ministers; salary, £170 to £250; in one instance a house and glebe Bantist.—One minister: salary, £250.

Church of Rome.—Twenty-five ministers of religion, with salaries averaging £200 a-year, and, in some instances, a house, but no glebes.

Jews.—One minister, salary, £100 per annum.

There are now nine Episcopalian Lutheran churches in and near Sydney, two Presbyterian, one Free Church, one Wesleyan, one Baptist, one Congregational, one Friends (Quakers), one Bethel Mariners, four Roman Catholic chapels, and one Jewish synagogue. There are ministers of the Established Church at Paramatta, Hunter's hill, Prospect, Liverpool, Marsfield, Campbelltown, Narellan and Cabramatta, Camden, Mulgoa, Windsor, Richmond, Pitt Town and Wilberforce, Penrith, Castlereagh, Berrima, Hawkesbury, Goulbourn, Yass, Braidwood, Bathurst, Illawarra, Newcastle, Maitland, Port Macquarie, Wellington, Seaham, Marengo, New England, and sixteen other places

Expense of Ecclesiastical Establishment in 1849

Denominations.	Paid Colonial		Paid from Miltary	m.4-1	
Denominations,	Salaries	Churches etc	Chest for Convict Service	Total	
Church of England Presbyterian Wesleyan Roman Catholics	£ 15,204 2,614 862 6,670	£ 3,726 400 3,388	£ 655 25 66	£ 19,585 3,039 862 10,124	
Grand Total	25,352	7,514	746	33,610	

EDUCATION is in progress, and much needed. education, According to the census of 1846, there were formation

then, under twenty-one years of age, who could not read, males, 18,568; females, 18,035: read only, males, 5,480; females, 6,159: read and write, males, 9,323; females, 9,078 Above twenty-one years of age, cannot read, males, 14,245; females, 7,160; read only, males, 7,150; females, 6,209; read and write, males, 37,623; females, 15,504.

Public or Free Schools in 1848

Denomination	Number	Scholars				
	of Schools	Male	Female	Total		
Church of England— * Orphan Schools * Schools established?	3	96	110	206		
prior to 1837	32	1,566	1,259	2,825		
†Ditto according to regulation of 1841	35	1,462	1,230	2,672		
† Presbyterian † Wesleyan	43 16	1,471 196	1,134 527	2,605 723		
Roman Catholic— * Orphan Institution * Schools prior to 1847	1 11	61 541	73 550	13± 1,091		
+ According to regu- lation of Sept 1841	21	917	792	1,709		
Totals	161	6,310	5,675	11,965		

Note —The Schools marked thus (*) are supported by Government, and those marked thus (†) by Government and Voluntary Contributions

There is a Sydney College with eighty students, a grammar school with forty-two scholars, and a "King's school," Paramatta, with thirty-six scholars. Of private schools, there are in Sydney district 223, with 3,510 males and 3,208 female scholars=6,718

The total sums paid from the Colonial treasury in 1848, for education in New South Wales (including the Port Phillip

district), was £13,540

THE Press.—About twelve newspapers and These publications are well periodicals. conducted, and exhibit a liberal spirit and talent equal to the provincial press of any portion of the United Kingdom. The Sudney Herald, Chronicle, Colonist, and Gazette, are published three times a-week; the Monator, six times a week; the Commercial Journal, twice, and the government Gazette, once a-week. There is an excellent subscription library and reading-room, at Sydney; an Australian museum and botanic garden, a Floral and Horticultural Society, and a Mechanics' School of Arts. There are agricultural societies in different parts of the colony, also reading-rooms and libraries; and in no part of the British Empire is there a greater desire for the extension of education, and the acquiring of useful in-

520 CRIME IN NEW SOUTH WALES, AND EXECUTIONS, 1829-1849.

CRIME.—In the section on transportation I have adverted to the fearful neglect of the home and local government, from 1788 to 1836, of the spiritual wants of the many thousand criminals deported during that period from the United Kingdom to Austraha. At New South Wales, at Van Diemen's Land, and at Norfolk Island, crime had reached its highest pitch about the years Extreme severity towards the prisoners, a neglect of the ordinances of religion, the flooding of the colony with criminals, without a due admixture of a free and untainted population, and the absence of any other mode of punishment in New South Wales for felons convicted there, except by deporting them to an earthly pandemonium at Norfolk Island, had produced a dreadful amount of sin in New South Wales. The Rev. Mr. M'Encroe, who attended seventy-four executions in New South Wales in four years, stated, that the greater number of the criminals, on their way to the scaffold, "thanked God that they were not going to Norfolk Island" Several of the prisoners there committed suicide, rather than live among the demons in human form by whom they were surrounded.

All this, however, distressing as it is, and disgraceful, in the highest degree, to those who, directly or indirectly, sanctioned the nation, about 200,000:—

continuance of such a barbarous system, appears to me no just argument against penal settlements, provided always they be judiciously regulated. To condemn "transportation" as a secondary punishment, because of the neglect of the positive and responsible duties of government towards a penal colony for forty years, is unreasonable; and if space be afforded me, at the close of this work, a chapter will be devoted to the examination of this important subject-important on many accountsfrom the abolition of capital punishments for every offence, except murder; and by reason of the heavy expense attendant on the maintenance of a large prison population at home; the competition of their forced labour with that of the free and struggling citizens; the difficulty of accomplishing a prison reformation, and the almost utter impossibility of a man tainted with crime, and known to have been in a prison, being enabled to gain an honest livelihood in Eng-For the present, my duty consists in ascertaining the existing state of crime in New South Wales, and how far it has diminished of late years The following statement extends over a period of twenty years; at the commencement of the period, the population was about 36,000, at its termi-

Number of Convictions in the Supreme Court and Courts of Quarter Sessions, and the Number of Executions in the Colony

37	Supre	me Court	Quarte	r Sessions		Crimi	nals Execu	ted.	
Year	Felonies	Misdemeanors	Felonies	Misdemeanors	Protestants		Roman	Catholics	Total
					Free	Bond	Free	Bond	
1829	244	29		-	4	24	6	18	52
1830	269	6		-	6	16	7	20	49
1831	205	29		1 - 1	3	10	3	16	32
1832	225	2	-		1	1	1	9	12
1833	219	11			1	9	6	15	31
1834	272	11		-		22	l —	20	42
1835	256	1		-	2	15	4	18	39
1836	168	4		_	2	14	3	7	26
1837	177	12	-	-	1	6	5	2	12
1838	199	18			2	6	1	10	19
1839	159	12	609	132	3	8	_	11	22
1840	99	9	565	161	1	6	_	1	8
1841	159	20	468	106	2	8	3	2	15
1842	135	41	536	85	3	3	2	3 2	10
1843	146	34	418	48	1	3		2	6
1844	199	22	331	48	1	7		_	8
1845	198	15	303	51		1	2	l —	3
1846	180	11	350	77		_	1	_	1
1847	176	10	281	61			8	1	4
1848	189	68	269	45	4	-	5	_	9
Cotal .	3,864	365	4,130	814	37	156	52	155	400

Note—The Quarter Secsions returns from 1829 to 1838, both inclusive, not rendered, or maccurate—Of the criminals executed, there were in the years 1830, one pagain, 1834, two faith uncertain, 1835, one pagain, 1841, two aborigines, 1842, one Jew and two aborigines, 1843, three aborigines, 1847, three aborigines

Notwithstanding the five-fold increase of population, and the large mass of criminals poured into the colony from 1829 to 1840, the diminution of crime is very remarkable In 1839, the convicted felonies amounted to 768; ten years after, in 1848, they were only 458. In 1829, capital punishment was inflicted in fifty-two instances, twenty years after (1848) there were only nine During the first ten years of the period under review, the number of executions amounted to 276, during the ensuing ten years, they were no more than ninety-seven There is a singular fact connected with this record of capital punishments, which I have carefully collated from the annual returns in the "Blue Books" transmitted by the governor to her Majesty's secretary of state for the colonies, and that is, the number of protestants—compared with Roman catholics-who have perished by the law for their crimes, viz, 193 to 207, the proportion of the free to the bond, was 89 to 311.

The offenders convicted in the supreme court of New South Wales during 1848, were—

Offences	Sydney	Ircuit	Mel
Murder	3 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	10	2 1 5 5 13
Cattle-stealing Other Offences Total Felonies	41	50	52
MISDEMEANOURS — Assaults Riot and Assault Subornation of Perjury Bribery Conspiracy Fradulent Insolvency Obtaining Money under False Pretences Uttering Base Coin Neglect escape	· $\frac{5}{1}$ $\frac{23}{2}$		10 15 — 1 — — 1
Total Misdemeanours Total Capital Convictio VOL 1.	. 32 ns 2		28

The executions for the undermentioned offences during the year 1848, were—

Religion Murder Rape Protestants, free Roman Catholics, free

Total . .

On comparing this return with the parhamentary paper, No 410, laid before the House of Commons 21st May, 1838, 1 find hat the criminal convictions before the supreme court, during the year 1835. amounted to 685, of whom 19 were for murder, 17 for attempting ditto; 1 for manslaughter; 13 for rape, 2 arson, 15 forery, 82 bushranging, highway robbery, &c., 67 cattle, horse, and sheep-stealing; 15 burglary; 3 perjury, 347 larceny, receiving known stolen property, &c.; and 87 for misdemeanours and assault. The total numbers committed for trial during the year 1835, (the last year given in the return), was 959 males, and 123 females, of whom 685 were convicted, 309 acquitted, 53 not prosecuted, and 35 admitted to bail, 86 received sentence of death 368 transportation, and 162 were sent to hard labour, &c comparison of this return with that of 1848, must certainly be a matter of satisfaction to the colonists of New South Wales

The convictions at the courts of Quarter Sessions in Sydney, Paramatta, Goulbourn, Bathurst, and Maitland, during the year 1848, were—

Felomes — Burglary, 4, housebreaking, 7, stealing in a dwelling-house, 8, highway robbery, 1, robbery, 10, ditto, armed, 1, stealing from the person, 26, assault with intent to rob, 9; larceny, 156, receiving stolen property, 3; embezzlement, 1; abduction, 1, horse-stealing 7; cattle-stealing, 3, malicious wounding cattle, 1; suffering to escape, 1. Total, 269. viz — Sydney, 150; Paramatta, 44; Goulbourn, 10; Bathurst, 15, Matland, 50.

Misdemeanours.—Assaults with various intents, 25, assault and false imprisonment, 1; attempting to commit felony, 3; obtaining money or goods by false pretences, 5, uttering counterfeit coin, 3, having ditto in possession, 1; attempting to dissuade a witness from giving evidence, 1; keeping a common gaming-house, 1, rescuing cattle, &c, 4 being an incorrigible rogue, 1. Total, 45 viz.—Sydney, 28, Paramatta, 6, Goulbourn 3; Bathurst, 1; Matland, 7.

3 x

The returns for the Gaols and House of Correction, New South Wales, for the year 1848, are are as follows:-

Gaols		Total Admissions of Whites, in 1848		Total	Felons				Misdemeanours.					
				1000	Tried		Untried		Tried		Untried			
Sydney Paramatta	•	:	•	Males 1,217 162 34 67	Fem 348 96 5	1,565 258 39 102	Males 111 22 10 17 3 39	Fem 13 4 - 3 - 1	Males 16 5 4 1 10 4	Fem 2 5 - 2 1	Males 50 11 8 3 17 45	Fem 33 7 - 3 2 11	Males 18 1 — —	Fem 4 2
Total				1,480	484	1,964	202	17	40	10	114	56	19	6

Note —The return of felons is at Michaelmas, 1848 The admissions into Newcastle and Port Phillip gaols not stated

The prisons are under the jurisdiction of the sheriff of the colony, and the superin- of New South Wales, during 1848, weretendence of a stipendiary visiting magistrate Any of the magisand principal gaoler.

trates may visit the gaol

In the Sydney gaol there are 108 sleeping cells, and twenty-two solitary cells, none of which are dark or below ground The classification directed by the gaol regulations The chaplains of the has been observed. church of England and of the church of Rome, appointed by the governor, perform divine service twice on Sundays, and once during the week They also frequently visit and instruct the prisoners Bibles, and other religious books are supplied senting ministers are admitted on the same terms as the ministers of the church of England and of Rome Attached to the prison are two hospitals-one for male, and the other for female prisoners, who are under the care of the surgeon of the prison female prisoners are attended exclusively by female officers The protestants and Roman catholics are continually kept apart is also a separation of hardened offenders from those imprisoned for the first time, also of the old from the young The felon prisoners are kept at hard work, such as breaking or cutting stone. Whipping, or solitary confinement, is resorted to for breaches of gaol regulations irons only in cases of urgent and absolute necessity. other colonial gaols are similarly managed; and they will all bear a comparison with those of the United Kingdom.

To a great extent the colony is now purified from crime; and it appears by the documents laid before parliament, Jan. 31, 1850, that the colonists have declared, in a petition to the Queen, that "it is their duty and determination, by every legal and constitutional means, to oppose the revival of transportation."

The civil causes tried in the supreme court

	Juries	of Four	Juneso	Twelve	Total	
Name •	De- fended	Unde- fended	Com- mon	Special		
Sydney Circuit Port Phillip	82 13 20	20 2 7	2 2	7 1 12	111 16 41	
Total	115	29	4	20	168	

There are just grounds for stating that New South Wales is more free from crime than could have possibly been expected by the most ardent philanthropist It can be compared with several portions of the United Kıngdom It may not be irrelevant to quote in this place an unimpeachable testimony in behalf of a large portion of the present population of the colony, which reflects great credit upon them, and fully confirms the opinions which I expressed in my History of the Colonies, in 1834-5.

Mr. T H. Braim, formerly of St. John's College, Cambridge, and now head principal of Sydney College, N S W, in his interesting History of New South Wales to 1844, thus speaks of the Australian youth —

" Descended, as many of them have been, from parents whose names were stained by crimes against their country and their God, brought up under a fearfully imperfect mental training, a neglected moral cultivation, and either an entire omission, or at the best but an imperfect performance of the duties and ordinances of religion, they have yet risen superior to these disadvantages, have earned for themselves a good name, have reared families in honour and respectability, and are now themselves in the enjoyment of general esteem and confidence, and their children availing themselves of blessings placed within their reach, which their fathers knew not, are bearing upon them the buds of excellence.'

Of the emancipists, he says :-

"They form no uninteresting part of the popula-tion, feeling that they had a bad character to lose and

a good one to gain, they have in many instances set themselves about the work of reformation, some of them are reckoned among our most honourable tradesmen and merchants, among the most liberal supporters, too, of the various benevolent institutions which adorn our land (Australia). Some of these institutions have been all but entirely founded, and are now mainly supported by their means. In many cases they have, by their industry and perseverance, acquired considerable wealth; and in most instances the wealth thus obtained has been generously and honourably devoted to the public benefit, the real and substantial advancement of this land of their expatriation. Nor do we know a more pleasing trait in human character than that which is thus displayed, once degraded, they have paid to a violated law the satisfaction it imperatively demanded, but when the debt was paid another obligation was felt to remain behind. Society had lost that beneficial influence which each member is called upon to exercise, and to

atone for this was now their honourable desire. In the fair and honest pursuit of commerce, by untring industry, they acquired those means which enabled them to gratify their wish—a competence—more, a profession—rewarded their patient toil, and no sooner was this poured into their lap, than they gave it back, spreading it through numerous channels, through each of which, as it flowed, it left blessings that even succeeding ages may enjoy. To say nothing of many public buildings, which are the chief architectural embellishments of our city, and which have been the result of their enterprise and zeal, we turn to some of those institutions of charity and benevolence which own them as their earliest supporters "—[Vol II, pp 315-16]

A people of whom thus much can be truly said, are they not qualified for the enjoyment of free institutions?

CHAPTER IV.

EARLY AGRICULTURAL AND PASTORAL STATE OF NEW SOUTH WALES—STAPLE PRODUCTS, AGRICULTURE, LIVE STOCK, WOOL, TALLOW—PRICES AND WAGES—COMMERCE, IMPORTS AND EXPORTS—SHIPPING, &c

At the period of the formation of New South Wales, or during its early struggles, when the colonists were again and again on the eve of perishing of want, how strangely the prophecy would have sounded in men's ears, could it have been foretold, that in little more than half a century, the colony would not only produce a sufficient quantity of animal and vegetable food for the support of a quarter of a million Englishmen and their descendants; but that Australia should have, in that short time, become the greatest wool-exporting country in the world, her salubrious chimate, and the pasturage of her virgin soil, rendering the increase of sheep and cattle so rapid, as to induce their owners to slaughter them in great numbers, merely for the sake of the tallow thus obtained

The present condition of New South Wales is indeed surprising, and the statements which mark the different epochs of her progress, well deserve attention in an historical point of view; and scarcely less, from the evidence they afford of the energy and industry of the Anglo-Saxon race—an energy to which difficulty appears to lend fresh vigour, and an industry as unflagging in its appointed course as that of the earth round the sun.

To me, who have had for years my mind

saturated-if I may be allowed the expression-with the one vast subject of the British colonial empire, the task of collecting and compiling its astonishing records has been truly a labour of love. I have studied the history of each colony, and have found in each a peculiar interest—an individuality, as it were—that grows upon the mind which views them as parts of a whole, different in their construction, but not incongruous. on the contrary, well calculated, by their union, to strengthen each other. In this light, which I sincerely believe to be the true one, I would fain bring them before my readers, and although deeply sensible of the magnitude of the subject, and the difficulty of the attempt, yet that appears to me as the strongest possible reason for endeavouring to afford a correct idea of the relative proportion of each possession, which can scarcely be conveyed, except by a general description of the whole. For instance, if in teaching a child the geography of England, we were to show him delineations -however accurate - of a few of the counties, and barely mention the others, would he not form a very maccurate (if, indeed, any clear notion at all) of the country, as a whole and so it is with our colonial empire.

This, however, is a digression; to return

to New South Wales. The public stock 1788, the governor directed every person in perished. the settlement to make a report of the live stated at 1 stallion, 3 mares, 3 colts, 2 bulls, twenty sheep, and twenty goats, of the sequence of feeding on grass which the of timber, 1621 acres. The quantity of land tion of stock. ment sustained a severe loss, by the neglect of a convict who had charge of the cattlewoods near Sydney, and were not recovered 105 sheep, and 43 hogs. -the only remaining cow became so dangershoot her.

In 1790, the stock sent out by his Majesty's government in the Guardian, consisting of 7 horses, 16 cows, 2 bulls, a number of sheep, goats, and 2 deer, were killed when the ship struck on an iceberg near the Cape of Good Hope (see page 405.) In this year the stock had been previously diminished in a wanton manner (see page 405) In session 1791 H.M.S. Gorgon arrived, to the great joy of the colonists, with 1 bull calf, 16 cows (3 bulls and 7 cows died on the passage), 68 sheep, 11 hogs, 200 fruit trees. and a quantity of garden seeds. At the close of this year the public live stock in the colony amounted to 3 stallions, 1 mare, 2 colts, 16 cows, 2 calves, 1 ram, 50 ewes, 6 lambs, 1 boar, 14 sows, and 22 pigs. The and Paramatta, fifteen miles distant, so that ground in cultivation at the Rose Hill government farm (Paramatta) consisted of 300 acres in maize, 44 in wheat, 6 in barley, 1 in oats, 2 in potatoes, 4 in vines, 86 in garden ground, and 17 in cultivation by the New South Wales corps.

In addition to these, there were 150 acres landed at Sydney Cove with the first British cleared, to be sown with turnips; ninety settlers, in January, 1788 (see p. 403), con- acres were in cultivation by settlers; twentysisted of 1 bull, 4 cows, 1 bull calf, 1 stal- aght by officers, civil and military, at and hon, 3 mares, and 3 colts; there were also about Sydney and at Paramatta; 140 acres a few sheep. These were placed on a spot were enclosed, and the timber cleared for at the head of Sydney Cove, which was cattle; making a total of 920 acres of land cleared for a farm, where the seeds, plants, thunned, cleared, and cultivated. So dense, and fruit-trees, brought from England, Rio however, was the forest around Sydney and de Janeiro, and the Cape of Good Hope, Paramatta, that any one straying a mile were carefully tended, under the anxious from the huts was almost invariably lost; superintendance of the governor. In May, and in this way many convicts and soldiers

In June, 1792, the Atlantic storeship stock in his possession, which the returns brought from Calcutta two bulls, a cow, 5 cows, 29 sheep, 19 goats, 49 hogs, 25 pigs, Bengal breed. In the October of the same 5 rabbits, 18 turkeys, 29 geese, 35 ducks, year, nearly five years after the establish-142 fowls, and 87 chickens. Scarcely a ment of the colony, the whole of the ground greater calamity could have befallen the in cultivation, both on account of the crown colonists, than the destruction, at this period, and of individuals, was—in wheat, 2081 acres; by native dogs, of five ewes and a lamb. barley, 241, maize, 1,1861; garden-ground, Added to this, several sheep died, in con- 1211 total, 1,6404 acres. Ground cleared newly cut trees had shaded previously from which had passed to settlers, under the seal the air and sun; hence a general belief that of the colony, amounted to 3,470 acres, of it would not be possible to rear this descrip- which 470 were in cultivation, and the In June, 1788, the settle-timber cleared from 100 more, ready for the sowing of grain. The stock belonging to the public, kept at Paramatta, consisted of two bulls and four cows strayed into the 3 bulls, 2 bull calves, 5 stallions, 6 mares,

The governor gave to each married settler ously wild, that it was found necessary to one ewe for the purpose of breeding, and to others he gave such female goats as could be spared. Land was granted, conformably to instructions from the secretary of state. Non-commissioned officers and privates of the marines, desirous of remaining in the colony, in the proportion of 150 acres to a married non-commissioned officer: 130 acres to a single ditto; 100 acres to a married private; and eighty acres to a single man; and, on receiving their discharge, clothing, provisions for one year, seed, and agricultural implements were given to each settler. Each male convict, emancipated or discharged, received, if single, thirty acres; if married, thirty acres, and ten acres for each The policy of the government was, child to establish a chain of farms between Sydney the country might be opened; which was subsequently carried out by extending lines of settlement to Windsor, on the Hawkesbury river, to Richmond, on the Nepean River, and other places, where cultivable land was found.

In 1793, of the stock which had been o'clock, however, the wind changed, and the landed in the colony, there remained but calves. During the early stages of the settlement, it was noticed as a singular fact among the live stock, that the proportion born of males to females was about three to sexes soon became equalized, and then the number of female preponderated over the male births.

In January, 1794, one small cow and a Bengal steer, weight 372 pounds, (both private property.) were killed for the use of the troops, and sold to them at eighteen pence per pound. This was but the third time that the colonists had tasted fresh beef since their arrival in 1788, viz —once soon after their landing, and a second time when the heutenant-governor and officers of the settlement were feasted by the captain of a Spanish ship. In March, 1794, only one serving of salt meat remained in store, and that was to be the food of half a week After that period, says Collins, "the prospect was truly discouraging; for mere bread and water appeared to be the portion of by far the greater part of the inhabitants of these unfortunate settlements—of that part, too, whose bodily labour must be called forth to restore plenty, and attain such a state of independence on the parent country, as would render delay or accident, in the transport of supplies, a matter of much less moment to the colony than it had ever hitherto been considered." Even a shark, caught in the harbour, yielded food to several, the oil procured from the liver sold at a shilling a quart; for but "very few to enjoy the pleasant light of a candle."

The seed-wheat was untouched, and might remain so for a fortnight; but all the animals, public and private, were threatened with destruction, to supply food for 3,000 people On 8th March, when the doors of the provision store were closed, and the convicts had received the last allowance which remained, a ship stood in for Port Jackson, but a gale of wind split her topsail, and she was driven to sea, to the dismay of the almost famishing inhabitants: at night the wind increased; and, during the ensuing day, nothing more was seen of the stranger. On the evening of the 9th, another sail (a brig) 10th dawned tempestuously: about three each inhabitant.

ship William, from Cork, with a cargo of three bulls, twenty-one cows, and seven beef and pork, and the Arthur, a small brig from Bengal, anchored that night in Port Jackson, and the 3,000 colonists were saved from a fearful death

The home government now became con-This, however, did not continue; the scious of the precarous supply of food obtainable for the convicts and settlers, and several vessels were despatched in succession to the colony, laden with all sorts of provisions; the live stock, public and private, was carefully preserved, and its numbers now were-mares, 11; stallions, 9; male asses, 4; female asses, 2; bulls, 15; cows, 25, ewes, 316; rams and wethers, 210; female goats, 352; male ditto, 170; hogs, several hundred. On the 1st of July, 1795, the colony was again reduced to straits; the salt provisions were all expended but a few casks reserved for the use of the troops, and on Saturday the 11th, there was no more animal food for the convicts; a greyhound was killed and its flesh sold for that of Kangaroo; but happily on the 26th of July, H M.S. Providence, captain Broughton, arrived with supplies from England, and was followed by HMS Rehance and Supply On the 1st of September, 1796, the live stock in possession of government, and of the civil and military officers of the settlement, consisted of mares and horses, 57; cows and calves, 101, bulls and bull-calves, 74; oxen, 54; sheep, 1531; goats, 1,427; hogs, 1869. cattle which had strayed from the settlement in the year 1788, were known to be wild, and to have largely increased in a fine district now termed the Cow Pastures, to the westward of the Nepean river The number houses in the colony were fortunate enough of acres in cultivation were 5,419, and the number of persons in the colony was 3,959. It is unnecessary to follow up this narrative of the pastoral and agricultural state of New South Wales, but it offers a striking contrast when compared with the two following tables, shewing the extent of cultivation in the colony, and its progress for the past twelve years; and the number of horses, horned cattle, sheep, and swine in each colony and district on the 1st January, 1849. when it appears there were, in cultivation with wheat, 63,463 acres, yielding 638,072 bushels of grain; 26,103 acres in maize, yielding 722,704 bushels; of oats, fifty-eight bushels Altogether, upwards of 1,500,000 was in sight; but a second night of sleepless bushels, or nearly 200,000 quarters of grain anxiety was passed, and the morning of the is raised, furnishing a quarter annually for There are no consecutive details concerning the grant, sale, and cultivation of land in the colony; some idea of the progress may be conveyed by the following general statement:—

Year	Granted	Cleared or Pastured	Cultavated		
1810	Acres 95,637	Acres 81,937	Acres 13,700		
1820	381,466	349,195	32,271		
1825 1828	673,699 2,906,346	127,878 231,578	45,514 71,523		
1833 1848	4,014,117 5,500,000	_	1636,69		

There is less than one acre under crop to each mouth in the colony; but this yields sufficient vegetable food; for the total value of grain, flour, rice, and potatoes imported for use in 1848, was only about £35,000.

The "commissioners' districts beyond the able wealth.

settled districts," to which reference is made in several tables, are those in which the squatters are located. The territory not included in the several counties is divided into districts, over each of which an officer called a commissioner of crown lands is appointed. He has under him a body of mounted constables or police, and his duty consists in preserving the peace of the district; in preventing unauthorized persons occupying the crown lands; in ascertaining that the squatters do not interfere with each other's lands; in enforcing compliance with the squatting regulations; and in making periodical returns to the government at Sydney. The terms on which the land is let to squatters are stated at pages 427 and 431. This respectable and enterprizing class of settlers now occupy many of the finest districts in Australia, and possess consider-

The Quantity of Land in Cultivation, showing Crops and Produce (exclusive of Gardens and Orchards), in New South Wales, including the District of Port Phillip, from the year 1837 to 1848 inclusive

	1				CR	OPS				
Year	Wheat	Maize	Barley	Oats	Rye	Mıllet	Potatoes	Tobacco	Sown Grasses, Oats, and Barley for Hay	Total Number of Acres in Crop
	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	
1837	59,975	18,381	2,551	3,893	493	80	1,165	533	5,054	92,125
1838	48,060	25,043	2,922	3,767	429	39	1,788	925	9,939	92,912
1839	48,401	22,026	3,490°	6,793	483	46	1,115	424	12,534	95,312
1840	74,133	24,966	5,144	5,453	609	115	2,594	381	12,721	126,116
1841	58,605	25,004	5,423	5,892	495	47	4,027	380	15,257	115,130
1842	65,188	27,324	5,320	4,467	486	99	5,174	224	18,592	126,874
1843	78,083	29,061	5,727	4,537	514	42	5,872	655	21,162	145,653
1844	81,903	20,798	7,236	4,336	359	43	6,783	871	21,766	144,095
1845	87,894	25,372	10,455	6,109	330	36	5,101	483	27,551	163,331
1846	88,910	31,773	9,215	9,390	177	82	5,537	228	37,221	182,533
1847	81,044	27,240	7,178	10,201	310	83	5,550	67	33,111	164,784
1848	87,219	20,375	8,789	13,572	167	14	5,774	201	27,558	163,669

Year				PRO	DUCE	_			
rear	Wheat	Maize	Barley	Oats	Rye	Millet	Potatoes	Tobacco	Hay
	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Tons	Cwts	Tons
1837	692,620	632,155	51,447	17,119	6,753	695	2,102	2,034	5,627
1838	469,140	556,268	32,103	13,416	4,878	353	3,496	4,952	6,960
1839	805,140	525,507	66,033	27,788	7,008	283	2,601	2,509	25,923
1840	1,116,814	777,947	105,389	66,020	8,863	3,338	11,050	4,300	21,329
1841	832,776	503,803	90,172	62,704	6,507	1,072	11,141	2,642	17,175
1842	854,432	590,134	88,767	84,321	4,451	1,201	12,561	2,014	18,622
1843	1,000,225	719,358	95,658	92,268	5,145	410	16,392	6,098	27,774
1844	1,312,652	575,913	132,612	70,620	4,475	511	22,748	6,382	31,848
1845	1,211,099	499,122	175,407	88,193	4,101	775	19,906	3,985	28,614
1846	1,421,750	870,400	193,835	216,783	2,250	1,929	18,329	2,087	42,754
1847,	1,027,802	725,704	87,636	221,731	1,200	798	14,240	725	33,111
1848	1,528,874	262,340	145,219	116,643	2,386	158	14,954	3,059	37,795
	1			l	1	1	1	1	

of gardens and orchards, on 31st December, 1839, will afford a comparison with the returns for the year 1848:-

The following estimated quantity of land in 1839–40, the squatting stations conincultivation in New South Wales, exclusive tained 6,666 males and 621 female Europeans, who had among them 7,088 horses, 371,699 horned cattle, and 1,334,593 sheep, and the stations were thus distributed -

Articles	Under Crop	Produce			Persons	Estimat	ted Extent	Acres in
Articles	Acres	Bushels	Tons	District occupying Stations		Ste	of stions	Cultiva- tion
Wheat	48,401	805,140				Miles	Acres	
Maize	22,026	525,507		Port Macquarie	21	137	87,760	561
Barley	3,490	66,033		New England .	53	560	358,400	333
Oats	6,793	27,788	_	Liverpool Plains	111	1,157	740,480	344
Rye	483	7,008	_	Bligh	53	5,696	3,655,440	201
Millet	46	283	_	Wellington	77	1,265	809,600	571
Potatoes	1,115		2,6011	Lachlan	95	4,193	2,683,520	2,334
Tobacco	424		1251	Murrumbidgee.	134	3,137	2,007,680	1,7201
Sown Grasses (Hay)	12,534		25,923	Maneroo	150	1,585	1,014,880	1,978

Quantity of Land in Cultivation in New South Wales in 1848, in Acres

Qı	iantity of	f Land	ın Cult	ivation	ın New	South	Wales u	1848,	in Acres	3	
Counties (Sydney District)	Wheat	Maize	Barley	Oats	Rye	Millet	Pota- toes	Tobacco	Sown Grasses	Wheat, &c , for Hay	Total number of Acres in Crop
Argyle	2,406	166	474	58	1	1	177		77	1.567	4,927
Bathurst	2,966	134	384			_	132	_		1,070	4,656
Bligh	215	49	4	8	_		_	_		127	403
Brisbane	328	283	12		_	13	11	_	5	130	732
Camden	7,350	1,879	477	171	18	- 8	510	4	476	1,238	12,071
Cook .	3,620	2,732	246	158	3		169	3	_	577	7,508
Cumberland	10,310	5,327	877	1,143	250	14	153	1	376	15,859	34,311
Durham	7,392	4,663	360	6		16	29	58	561	352	18,437
Georgiana	1,537	13	125	46	9	-	123	-	_	239	2,086
Gloucester	2,517	1,311	73		_	6	16		100	38	4,061
Hunter	1,079	1,429	5	13	-	-	2		5	22	2,555
King	1,028	119	182	12	-	-	28	-	-	229	1,598
Macquarie	261	906	19	7	_		7	l —	-		1,200
Murray	1,769	234	307	157	1	-	106	_	_	1,058	3,632
Northumberland .	9,344	5,207	299	64	1	-	15	72	130	684	15,816
Phillip	425	103	19	_	4			6	60	105	722
Roxburgh	1,600	60	250	_	10	-		150	_	500	2,570
St Vincent	1,894	731	85	15	-	_	-	690	_	274	3,689
Stanley		35	l —	_		_	_	7	-		42
Wellington	307	83	16	6		_	13	9	_	259	693
Westmoreland .	1,111	150	81	36	11	4	194	-	_	200	1,787
Total in Counties	57,453	25,564	4,295	1,900	308	77	2,595	1,000	1,739	24,528	118,525
Commissioner's Dis- tricts, beyond the Limits of Location,											
Bligh	305			l	_	_	_	_	-		305
Clarence River .	_	298	6	-	l _	-	27	_			331
Darling Downs	30	120	4	6		-	10		-	10	180
Gwyder				_	_			-	_		
Lachlan	1,297	34	25	25	2	-	11	1	l —	591	2,046
Liverpool Plains	_	-	_	_	_			_	_		_
Lower Darling				_			_	-	_		_
McLeay River	87	314	16	2	-		9	-	_	12	440
Manaroo	1,258	104	70	50	-	-	113	l —	_	374	1,969
Moreton Bay	22	36	-	_	_	-	-	l —	-	_	58
Murrumbidgee .	2,000	300	200	_	_	I -	_	I —	-	450	2,950
New England	830	230	120	90	-	5	40	-	l —	85	1,500
Welhngton	83	3	2	-	-	1 -	7	-	6	93	194
Total in Commis- sioners' Districts	5,912	1,439	443	173	2	5	217	1	6	1,615	9,973
87	4- 17%-	<u>'</u>		<u> </u>	<u>, </u>	1 771	1	1 Y	- D. J.		<u> </u>

Note .- There are no returns for Gwydir, Liverpool Plains, or the Lower Darling

528 AGRICULTURAL PRODUCE OF NEW SOUTH WALES, IN 1848.

Produce in New South Wales in 1848, and Area in Square Miles of each County.

1,0000	C 010 21600	NOWER P	7 4460 676	1010, 0	7000 21.7 60	w we ogo	eare me	tes of en	ich Cou	wy.	
Counties (Sydney District.)	Wheat	Maize	Barley	Oats	Rye	Millet	Pota- toes	Tobacco	Sown Grass Hay	Wheat, &c , for Hay	Area in Square Miles
Argyle	bushals 20,297 49,488 3,120 4,038 11,077 34,509 57,430	3,389 3,777 58 7,105 37,055 80,498 113,786	5,441 6,490 16 80 7,864 2,405 4,682	10 2,301 1,789 2,397	6 - - 171	50 bushels 35	tons 368 454 — 28 526 248 556	cwts	tons 66 15 754 386	tons 682 1,590 104 — 113 698 402	1,951 1,860 1,683 2,344 2,188 1,652 1,445
Ourham Georgiana Gloucester Hunter King Macquarie Murray Northumberland Phillip Roxburgh St. Vincent Stanley Wellington Westmoreland	75,654 23,493 34,268 7,350 9,682 3,437 23 196 83,199 5,040 25,000 30,241 4,738 16,510	202 32,641 45,105 2,284 30,595 4,904 152,589 2,850 1,500 21,685 1,010 2,440	1,707 1,497 100 2,078 650 3,935 4,624 60 4,000 944 —	448 	=	170 170 1 170 285 1 170 1	50 373 25 6 38 17 185 195 11 60 2,200 9 38 532	605 	878 - 105 - 3 14	4,256 127 225 12 14 215 626 729 44 1,000 270 — 177 178	2,187 1,924 2,930 2,056 1,781 2,000 2,248 2,342 1,618 1,519 2,667
Total in Counties		673,780		12,136		703	6,219	720	3,044	11,472	39,586
Commissioners' Districts beyond the Limits of Location Bligh Clarence River Darling Downs Gwydir Lachlan Liverpool Plains Lower Darling M'Leay River Manaroo Moreton Bay Murrumbidgee New England Wellington Total in Commission	7,265 400 400 14,838 — 1,575 12,550 440 24,000 20,750 1,097	10,139 4,800 517 10,245 3,220 6,500 7,500 5,750 60	998 352 360 3,000 2,850	400 — 1,500 —		 75	138 12 - 7 - 13 169 - 420 7	5		8 463 26 — — — — — — — — — — — — — — — — — —	No returns
Total in Commis- sioners' Districts	83,305	48,924	7,790	2,210	17	75	766	5	4	3,761	_

Note .- There are no returns for Liverpool Plains, or the Lower Darling

The information contained in these returns is not supposed to be accurate, and must be viewed merely as an approximation to truth. It, however, conveys some idea of the relative extent of cultivation in each county and commissioners' district The commissioners' districts are those occupied by squatters, to whom cultivation, except for their own supply, is prohibited. The area of all the above-named counties is stated to be, in square miles, 39,586, equal to 25,374,400 acres, of which it will be seen, that no more than 118,525 acres are under cultivation.

The "Commissioners' Districts," or the squatting stations, are held for pastoral pur-

area held by each, in 1849, throughout the territory of New South Wales (including the Sydney and Port Phillip Districts), was-

Persons holding licences — Sydney, 1,019; Port Phillip, 666 = 1,685. Number of licenses held—Sydney, 1,520; Port Phillip, 827 = 2,347. Acres of land occupied—Sydney, 43,896,232; Port Phillip, 29,464,240 = 73,360,472; or in square miles, Sydney, 68,000; Port Phillip, 46,000 = 114,600 square miles of Frederick as a few sections of Sydney, 68,000. (the area of England is about 60,000 square miles) Average quantity of land held by each individual in Sydney, 67 square miles; in Port Phillip, 69; in the whole colony, 68 Two squatters hold more than 800,000 acres each; two ditto, 600,000 each; one ditto, 450,000; two ditto, 400,000; four ditto, 350,000; three ditto, 300,000; fourteen ditto, 250,000; fourteen ditto, 200,000; thirty ditto, 150,000; seventythree ditto, 100,000; and two hundred and ninetyposes; the number of squatters, and the eight squatters hold more than 50,000 acres each.

According to a return prepared at the office of the colonial secretary of New South Wales, dated Sydney, 1st May, 1849, the following is a statement of the number of horses, horned cattle, pigs, and sheep, in each county and district in New South Wales, on 1st January, 1849.—

Horaed Cattle Counties or Districts Horses Pigs Sheep Sydney District settled 3.652 22 831 1,285 260 708 Argyle 18 339 1,021 266,369 Bathuist 3.614 1,015 1,795 6 551 63 119 302 Bligh 10,103 949 132 319 Brisbane 5 490 33 953 6 156 38 607 Camden 2,112 13,294 8,929 4 283 13 104 Cook Cumberland 29 710 13 728 11 265 7,014 36 977 8 080 122 058 Dunham 2,928 936 198 320 12ء 24 Georgiana 1,180 21 176 2662 3 293 Glovester 1,416 11 209 Hunter 6776 1,730 1,319 16 200 708 10(956 King 872 14 544 698 14 300 Macquarie 4 340 28 288 1 339 328 972 Muirav 5 827 34 563 10 653 21 806 Northumberland Phillip 1,033 6 030 163 89 500 2 420 18 200 630 188 300 Roxburgh St Vincent 2,329 20 724 3,118 62 504 446 3 947 145 23829 Stanley Wellington 681 11 549 206 77 693 2,040 13 277 924 46 994 Westmoreland 2 139 243 Total 64 817 387 283 59,537 Commissioners' District, beyond settled District beyond the 1,313 193 221 52 940 Bligh Clarence River 1,40a 1,200 48 84 867 116 767 Dailing Downs 40 600 60 553,000 Gwyder 2,060 118 097 50 109 347 Lachlan 4.386 130,594 791 35a 600 Liverpool Plains 3,946 130 081 341 460 Lower Darling 480 21,062 25 39 621 McLeay River 884 17 128 706 257 303 202 5,446 106 530 603 Maneroo Moreton Bay 1,127 19,412 140 290 962 704 165 Murumbidgee 4,586 132 301 1 200 New England 3,582 79,820 1,000 822 603 Wellington 1,683 69,385 232 277 025 Wide Bay 51 36 20 787 Burnett 372 6,409 204 734 Maianoa 5,639 8,500 4 391 299 Total 32,583 978 881 Total in Sydney Dis 97,400 1 366,164 65,216 6,530 042 Port Phillip District, within settled District 2,000 137 600 Bourke 30,500 2,550 8,056 Grant 627 535 267 300 Normanby 888 15,698 247 179,975 Belfast 60 208 59 Alberton 612 16,638 368 26,007 Total 4,192 71.100 3,759 610,963 Commissioners' Districts, beyond the settled District Gipps' Land 1,070 37,980 500 193 961 Murray 3,48 84,942 521.997 Portland Bay . 3,825 122,065 1,869,130 Western Port 3,233 1,100 1,196,698 Wimmera 692 16,438 300 737,528 Total 12 303 315,588 1,900 4 219 314 Total P Phillip Dis 16,495 386 688 5,629 5,130,277 70,875 11,660,819 General Total 113,895 1,752,852 VOL. I

It will be observed in the foregoing table that the number of sheep in the squatting districts is twice the number that are in the settled districts or counties. So also with regard to horses and horned cattle. The urrumbidgee and the Darling Downs districts appear to be the favourite sheep pastures.

The progressive increase of live stock in New South Wales is thus shewn —

Years	Horses	Horned Cattle	Sheep	Swine
1788	7	7	29	1
1810	1,114	11,276	34 550	
1820	4,014	68,149	119,777	returns
1825	6,142	134 519	337,622	returns
1828	12,479	262,868	536,391	
1848	113,995	1,752,852	11,660 819	70,875

Such a rapid augmentation in the number of domesticated animals is unexampled in the history of any country, and would have been yet more remarkable, but for the extensive slaughtening of horned cattle and sheep to obtain tallow. What the amount may be at the next decimal period, it is impossible to say, the extensive regions to the northward recently found available for pasturage, will give an additional stimulus to the production of animal food and wool

Live stock is becoming a staple export of New South Wales, horses are being largely purchased by the East India Company as amounts for their cavalry and horse artilery, and when steam navigation is established between India and Austraha, this will probably prove a very lucrative traffic, as the horses of the southern colonies are well suited to withstand the trying climate of India The following shews the trade in live stock for the last few years —

Live Stock Imported.

Horses	Horned Cattle	Sheep	Sheep and Hogs
92	97	55,208	307
185	74	9,822	192
652	135	17,567	359
1.008	244	19 958	252
875	156	530	50 Hogs
113	89	638	65 Ditto
31	28	609	4 Ditto
52	21	307	
693	48	811	2
655	29	1,228	
591	22	2,285	
255	26	1,363	
	92 185 652 1,008 875 113 31 52 693 655 591	92 97 185 74 652 135 1,008 244 875 156 113 89 31 28 52 21 693 48 655 29 591 22	Sample S

Note—The Sheep have principally been imported from Van Diemen « Land to the District of Port Phillip The Horses have chiefly come from South America

Year.	Horses.	Asses and Mules	Horned Cattle	Sheep	Hogs	Value
						£
1843	248	2	1,852	77,116	-	41 915
1844	489	3	3,329	53,318		40,394
1845	1,159		3,972	33,651	6	53,438
1846	1,021		6,052	37,848	4	52,942
1847	466	-	8,034			57,355
1848	1,182			895,211		85,184

The colonists have now turned their attention to the curing of animal food, which will, doubtless, soon form a valuable item in their staple products. I used, while in colony in the under-mentioned years:-

Live Stock Exported from N. S. Wales and P. Phillip. | China, some of the concentrated soup prepared in New South Wales, and found it excellent. Samples of the salted meats sent to England have been pronounced equal to the beef provided by the Cork contractors for the navy; the climate is sufficiently cold to admit, during the season, of perfect curing, and it is to be hoped that her Majesty's government will allow her Majesty's ships on the East India station to be provisioned from Australia.

The following table shows the quantity and value of salt meat exported from, and the value of salt meat imported into, the

Year	Beef, Pork, and Mutton	Mutton and Bacon Hams	Tongues.		Value as entered in Returns of Exports	Value as entered in Returns of Imposts
1843 {	Quantity 2,867 casks 856½ tons	Quantity.	Quantity 224 lbs.		£13,924	£19,286
1844 {	4,292 casks 2944 tons	20,615 {	110 cwt. 150 m No.	}	18,730	3,355
1845	1,142 casks 425½ tons 345 packages 4,400 lbs. of pre-	94 cwt. 11,422 m No.	63 casks 2,450 m No.	}	12,163	5,200
1846	served meats 721 casks 1,126 tons 12 packages of preserved meats	39 cwt. 300 m No.	12 casks 300 m No.	}	15,66 4	7,197
1847	4,335 casks 866 tons 224 packages of preserved meats	224 cwt	127		24,278	3,917
1848	2,308 casks 616 tons 90 casks of preserved meats	145 cwt.	228		19,477	3,229

The extensive herds of cattle will naturally cause a large increase in the hide and leather trade; the imports and exports of hides, and of manufactured and unmanufactured leather, is thus shown, from 1843 to 1848.

Year.	Value Imported.	Value Exported
1843	£36,185	£10,305
1844	19.844	22,285
1845	14,124	40,866
1846	15,230	28,999
1847	21,283	39,001
1848	24,358	25,939

The consumption of meat in Australia is very great: it is eaten three times a day; two hardworking bushmen will consume forty pounds in a week without difficulty; on farms beef is generally used, at pastoral stations, mutton; or they are alternated; one week four or five sheep are killed, next week a bullock. Both beef and mutton of meat.

yield to the palate a richer flavour than the generality of meat in England. Poultry is reared in considerable quantities for the markets of Sydney, and in the neighbourhood of the principal towns, Mr. Alexander Harris says he has seen "a whole flock of turkeys almost keeping themselves on the wild grasshoppers and such vegetable matters as they could pick up." Geese, ducks, and barn-door fowl multiply with astonishing rapidity. Sydney has a population of about 50,000 inhabitants, and the following is a statement of the live stock slaughtered in the city during 1848-viz., horned cattle, 30,613; sheep, 95,824; and pigs, 8,457.

Estimating the cattle at 830 lbs. each, the sheep at 70, and the pigs at 100, the quantity of meat would be 127,282,000 lbs., equal to six pounds three quarters per day for each mouth. There are, however, large exports

has been diminished from more than a history of the colony:-

But it is not only in the article of animal quarter of a million sterling to less than food that New South Wales is now inde- fifty thousand pounds; and, by the subsependent; the colony grows very nearly suffiquent table, that the colony is now exporting cient corn and vegetables for its annual grain and flour. What a contrast this prewants. It will be seen by the following, sents to the statements of famine and imthat the value of vegetable food imported, pending destruction which mark the early

Articles	1838	1839	1840	1841	1842	1843	1944	1845	1846	1847	1848
IMPORTS — Wheat bushels Maize Barley, Oats, and	79328 6040	30862	19185	12773	1120	583	17	109355	536		-
Peas bushels	58927	64093	63363	41610	37798	61361	35194	46399	46454	37469	49163
Flour and Bread 1bs	2478712	3579076	7108663	14929503	7247016	69417 60	4370240 & 250 casks of Biscuit		5367936	5335680	3131744
Rice "		1414747			2260046				1283968		
Potatoes tons Value of Imports \mathcal{L}	1167 64313	1189 285110					1085 65442	430 39855		1227 52740	1617 41489
EXPORTS -											
Wheat bushels	_	-		-	-	273		1362	6252 1867	8820	
Maize Barley, Outs, and	_	_	_	_	-	4687	26184	5334		62262	
Peas bushels	-	-	-	_	-	1870		292			
Flour and Bread lbs	-	- 1	-	_		3146192		2837632			650832
Potatoes Value of Exports £	=	=	=	_	_	47 13486	12232	50 13931	12258	16944	6639

Wool.—The origin, progress, and the pro-tural statistics in Britain to verify or dismother country. There can scarcely be a doubt, that the extensive growth of wool in Australia, and the reduction of price in German and Spanish wools, have had a most important effect on the woollen manufactures of England, and enabled her to maintain a competition with foreign countries The manufacture of wool is the oldest known branch of trade in England; it existed during the period when the Romans were imported into the United Kingdom was encamped among the Britons; and although the trade was greatly fostered by Edward III, there are notices on the statute book 100 years prior to that period, relative to "broad cloths two yards within the lists." For several centuries, it was a favourite policy of English monarchs and statesmen to encourage the wool trade; and to such an extent was this feeling carried, that it was deemed politic even to suppress the manufacture in Ireland. At the end of the seventeenth century, the value of the wool shorn in England was estimated at £2,000,000. The one-tenth part of the foreign wool required. number of sheep and lambs in the United In 1848, the total quantity of wool imported Kingdom is now estimated at about 40,000,000, into the United Kingdom was 69,343,477 lbs; and the annual production of wool at about of this Germany furnished 14,428,723, 120,000,000 lbs. This, however, is a very Spain only 106,638; Russia, 2,349,009; vague estimate, which there are no agricul- Italy, 736,137; Turkey, 690,300, Denmark,

duction of this valuable commodity deserve prove. It was, however, admitted, in the especial notice, from the material share it evidence before the House of Lords, in 1828, has had in the growing prosperity of Aus- that a great deterioration had taken place, trahan commerce, and moreover for its bene-during the previous thirty years, in the ficial influence on the manufactures of the fineness of English wools, the efforts of agriculturists having been directed to the weight of the carcase and of the wool-the lean Herefordshire sheep yielding 1½ lbs of fine wool; the fat Norfolk sheep yielding 3 lbs. of coarse wool Hence it became necessary to import largely Spanish and Saxony wools, in order to maintain the character of our cloths.

> In 1829, the quantity of foreign wools 21,118,976 lbs; of which 14,110,006 lbs. came from Germany; 3,751,714 lbs. from Spain; and 1,838,642 lbs., or about onetwelfth part from all the Australian colonies. In 1834, Germany sent us 22,634,615 lbs; Spain, 2,343,915, Russia, 3,107,951, United States, 2,048,309; Italy, 2,550,819, Tripoli and Barbary, 1,977,816, Turkey and Greece, 1,474,522; South America, 1,099,052, and our Australian colonies, 3,558,091 lbs. The total importations for the year were 45,647,870, Australia did not therefore then contribute

1,381,356, South America, 7,384,931; British India, 5,997,435; Cape of Good Hope, 3,497,250; and Australia, 30,034,567lbs., in the following proportions:-New South Wales and Port Phillip, 22,091,481 lbs.; Van Diemen's Island, 4,955,968; South Australia, 2,762,672; Western Australia, 129,295; and New Zealand, 95,151 lbs; our colonies in the Southern Pacific therefore contributed nearly one-half of the whole wool imported in the year 1848; while Germany, on which the main rehance of our manufactures was placed, only sent about 300,000 lbs. more than it had done twenty years ago The proportions of colonial to foreign wool imported for twenty years between 1826 and 1846, at intervals of five years, is thus shewn, the two figures represent so many million lbs. weight; by colonial wool is understood all wool from possessions of the British crown -

Annual Averages	Foreign	Colonial	Total
of Five Years	Wool	Wool	Importation
182630	25	2	27
1831—35	34	10	38
1836—40	44		54
1841—45	36	22	58
1846	34	30	64
1848	40	29	69

In the preceding table, is added the year 1848, as a further comparison of the ratio of colonial and foreign wool importations: 1850 would be still better in behalf of our colonies; and let it be remembered that, in 1826, the proportion of colonial to foreign wool was only the 250th part of the annual imports.

The following table, prepared by the sta-tistical department of the Board of Trade, in March, 1846, shews the importations of colonial wool compared with foreign wool. year by year, from 1818 to 1844; it will be seen that while the quantity of foreign wool has not been doubled in quantity, that of colonial wool has risen from nothing to 22,600,000 lbs, or more than the foreign importations in any of the six years ending 1824. It may also be noted that the admission of colonial wool, duty free, in 1825, had a powerful influence in stimulating production in the colonies; in one year (1826) the importation increased nearly fourfold; for seventeen years there was an annually increased production in our maritime possessions; and so much was this augmenting supply required, that for eight-and-twenty years the prices of English wools were maintained.

Importations of Foreign and Colonial Wool into the United Kingdom from 1818 to 1844, and prices of English Wools

Years	Duty	Foreign Wool	Colonial Wool	Total	Price of Southdown	Price of Kent Long.
		lbs	lbs	lbs	per lb	per lb
1818	₹d per lb.	24,720,139			2s 6d	2s, 0d.
1819	6d per lb.	16,094,999			1 7	1 3
1820	,,	9,653,366	122,239	9,775,605	1 5	1 4
1921	1 ,,	16,416,806	205,761	16,622,567	1 3	1 1
1822	,,,	18,859,265	198,815	19,058,080	1 3	0 11
1823	,,	18,863,886	502,839	19,366,725	1 31	1 0
1824	Dec 1824,— 1d per lb of 1s value	22 147,540	416,945	22,564,485	1 2	1 1
	(1d per lb under 1s val					
1825	Colonial free	43,465 282	351,684	43,816,966	1 4	1 4
1826	27	14,747,103	1,242,009	15,989,112	0 10	0 11
1827		28,552,742	562,599	29,115,341	0 9	0 101
1828	,,	28,628,121	1,607,938	30,236,059	0 8	1 0
1829	,,	19,639,629	1,877,020	21,516,649	0 6	0 9
1830	97	30,303,173	2,002,141	32,305,314	0 10	0 101
1831		29,110,073	2,541,956	31,652,029	1 1	0 103
1832	,,	25,681,298	2,461,191	28,142,489	1 0	1 04
1833		34,461,527	3,614,886	38,076,413	1 5	0 101
1834		42,684,932	3,770,300	46,455,232	1 7	1 71
1835		37,472,032	4,702,500	42,174,532	1 6	1 6
1836	,,	57,814,771	6,425,206	64,239,977	1 8	$1 \ 8\frac{1}{2}$
1837		38,945,575	9,434,133	48,379,708	1 3	1 3
1838	99	42,430,102	10,164,253	52,594,355	1 4	1 5
1839		44,504,811	12,875,112	57,379,923	1 4	1 51
1840	1 1	36,498,168	12,938,116	49,436,284	1 3	1 2
1841	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	39,672,153	16,498,821	56,170,974	1 0	0 11
1842		27,394,920	18,486,719	45,881,639	0 111	0 10
1843		26,633,913	21,151,148	47,785,061	0 114	0 11
1844	from June 6th, free	42,473,228	22,606,296	65,079,524	1 2	1 2
1845		,,	"	76.828.152	1 4	1 3

1s 6d. per lb.

Merino, and in ten years his flock, which labours consisted originally of seventy common Benvaluable property to the very best procured mate from thence

committee of the Privy Council for trade, 1848 (January), 10,054,000. a company, as proposed, and that the gover-yield 50,000,000 lbs. weight of wool.

nor be instructed to feed the convicts on The following statement gives the quanmutton, instead of salt provisions; for the tity of wool annually shipped from New

Until the Australian colonists began to lords of the committee were "led to imagine send fine wools to England, the Germans and entertain hopes that wool of a fine and Spaniards had almost a monopoly of quality may be produced in this colony, the supply, and their prices at one time and that as wool of such fine quality is much ranged from 10s. to 12s. per lb.; now they wanted and desired by the manufacturers of are not one-fifth of that sum The prices cloth in England, it being mostly drawn, at of Australian fine wools are about 1s. to this time, from a country influenced, if not dependent, on France, their lordships enter-The facts connected with the origin of tain no doubt that it is well deserving the Australian wool-growing will be interesting attention of his Majesty's government, to to many. In 1793 the late John M'Arthur, encourage the produce of fine wool in the then captain in the corps serving in New colony of New South Wales" King George South Wales, assumed that the grasses and the Third, who, at that time, paid great climate of Australia were adapted for the attention to agricultural and pastoral purrearing of Merino sheep, and in 1797 he suits, entered into the patriotic views enterobtained from captain Kent, R.N., three rams tained by his Majesty's council, and captain and five ewes, of pure breed, which were sent M'Arthur obtained, from the Merino flock to the Cape of Good Hope by the Dutch gov- of the king, several ewes and rams, with ernment, but not being valued by the settlers, which he returned, in 1806, on board a captain Kent brought them to New South vessel appropriately named the Argo, to Mr. M'Arthur immediately began the land so fortunate in being adopted to cross his coarse-fleeced sheep with the by him for the scene of his meritorious

Such was the commencement of the gal sheep, was increased to 4,000, although rapidly-increasing flocks of fine-woolled sheep the wethers were slaughtered as they became in Australasia, which now (1850), including fit for food. In 1803 Mr. M'Arthur returned all the southern colonies, number at least to England, exhibited samples of his wool to 12,000,000, which contribute annually about a committee of manufacturers who happened 25,000,000 lbs to the manufacturers of the to be then in London, which samples were United Kingdom, and which, within the much approved. On the 26th of July, 1803, next five years, will most probably not furhe addressed a letter to Lord Hobart, stating nish less than 50,000,000 lbs. yearly, whereby at length the progress made in producing our labouring population will be enabled to wool of a "softness superior to many of the exchange flimsy cotton garments for warm wools of Spain, and certainly equal in every woollen clothing, better suited to our cli-

That this is not an exaggeration will be On the 4th May, 1804, captain M'Arthur admitted, when we consider that New South addressed a memorial on the subject to the Wales possessed, in 1843—sheep, 5,000,000, An increase and on the 6th July, 1804, appeared before of cent per cent in four years—five million that committee, and stated his plans for in four years The annual augmentation has rendering England independent of foreign been about 1,250,000, notwithstanding the countries for a supply of the best wools, prodigious number slaughtered for their The Privy Council encouraged the views of tallow, as will be presently shown Mr. Arthe enterprising colonist, who stated that he thur Hodgson states the number killed, in was ready to take the risk and expense on 1847, at 181,000; and that 70,000 were himself. All he required was an allotment exported to New Zealand and the islands of of 10,000 acres of grazing land, and liberty the Pacific. It is reasonable to infer, that to select thirty convicts as shepherds. The the annual increase on eleven to twelve Privy Council finally, after hearing the evi- million sheep in the next five years, will be dence of governor Hunter, and other con- not less than 2,500,000 per annum, which clusive testimony, recommended that a will raise the number of sheep to nearly reasonable grant of pasture land should be 25,000,000 in the year 1855: these flocks, made to captain M'Arthur, instead of to at only two pounds of wool per fleece, would

South Wales, from 1807 to 1836, a period of five-and-twenty years :--

Year	lbs	Year.	lbs	Year	lbs
1807	245	1821	175,433	1829	1,005,333
1808	562	1822	172,880	1830	899,750
1811	167	1823	198,240	1831	1.401.284
1815	32,971	1824	275,560	1832	1,515,156
1816	73,171	1825	411,600	1833	1,734,203
1817	13,616	1826	552,960	1834	2,246,933
1818	86,525	1827	407,116	1835	3,893,927
1819	74,284	1828	834,343	1836	3,693,241
1820	*99,415		,		, ,

m 245 This shows an augmentation able the to 3,693,241 lbs. In the annexe return is continued, and the value is added. proving, in twelve years, a quintupling in quantity, viz.—from 4,448,796 to 22,969,711 lbs., and a quadrupling in value :-

Year	Quantity	Value	Year	Quantity	Value
1837 1838 1839 1840 1841 1842	1bs 4,448,796 5,749,376 7,213,584 8,610,775 8,390,540 9,428,036	£332,166 405,977 442,504 566,112 517,537 595,175	1843 1844 1845 1846 1847 1848	1bs 12,704,899 13,542,173 17,364,734 16,479,520 22,379,722 22,969,711	645,344 1,009,242 1,019,985 1,272,118

Tallow promises to form nearly as valuable an article of export as wool; it is a branch of traffic which originated in the recent commercial depression of the colonists in New South Wales there was considerable speculation in the purchase of land by the colonists; and the money thus laid out was transmitted to England, for the conveyance of emigrants to the colony. Had the land been bought in the United Kingdom by capitalists here, the colonists would have been benefited, but the reverse was the case Between November, 1840, and November, 1841, the local government withdrew about £260,000 from the colonial banks; and, in 1841, upwards of £300,000 was paid for immigra-The colony could have borne this abstraction of capital, if it had been gradual; but the suddenness of the withdrawal of so large a sum, necessarily brought on a monetary crisis, which the want of foresight on the part of the governor and authorities at Sydney, and their incapability of supplying any remedy, rendered most distressing in its consequences.

In 1841-2 the colonial banks, partly in self-defence, in the midst of a full swing of pastoral activity and commercial enterprise, suddenly reduced the amount of discounts; and, to use a familiar expression, brought the

In 1841, the advances of the banks, chiefly on bills and promissory notes, was £2,582,203: in 1843 this sum was reduced to £1,583,137, and a large part of this consisted of "locksup,"-or bills renewed from time to time. The importations from England had been excessive; quantities of articles, sufficient for two or three years' consumption, were imported at once, and must be paid for; the price of wool had been falling for several years in England; added to this, the government raised the selling price of land, and, nearly simultaneously, transportation ceased -and with it, the annual supply of convict labour, and the large governmental expenditure furnished by the British exchequer. It was not surprising, therefore, that cash, or a representative medium of exchange, became exceedingly scarce in New South Wales—and, as a necessary consequence, the price of every commodity fell far below its intrinsic value; men were compelled to make any sacrifice, to try and meet their engagements - there was almost universal bankruptcy-and the power of the momed classes to ruin a nation or community, when that community is dependent for the daily interchange of all its wants, on a very limited amount of gold or silver coin, became fear-Sheep, the staple of the fully apparent colony, fell from ten shillings to sixpence or one shilling each; and, even at that price, were only received in barter, or in payment of debts, everything else, but the few sovereigns in the colony, fell in like proportion. So great was the distress, that most of the mercantile houses and persons reputed of great wealth, were declared insolvent: their numbers stood thus in-

	1842	1843	1844	Total
Sydney Melbourne .	600 113	535 124	221 45	1,356 282
Total	713	659	266	1,638

According to an intelligent colonist, Mr. Westgarth, the collective debts of these 1,638 insolvent estates amounted to no less than three-and-a-half million sterling, and the assets were merely nominal; for, as he truly observes, "many extensive merchants and large proprietors beheld the ample substance they were once possessed of, gradually disappear with the reduced value of their land, live stock, and other property." Mr. Braim mentions, that at the period of depression, he heard a rich man in Sydney state in a most whole of the colonists "on their haunches." lugubrious tone, that he had been obliged to take, in payment of a debt, 10,000 sheep, which will be produced when one-third of at Moreton Bay, at 1s. each. So little did the area of the district of Port Philip is occuhe think of his bargain, that he put them in flocks of from ten to fifteen hundred, and removed the ewes, to prevent the increase, and consequent addition to his expenses of each other as at present:-Many of the large flock management. owners determined to slaughter their fat sheep and horned cattle, and boil them down, so as to obtain the largest quantity of tallow from the carcase, which, as meat, was valueless. The example was set by a stock owner named O'Brien, who rightly conceived, that the mere fat of the animals would be more valuable in England, than the entire animals were in New South Wales The mode of "boiling down" consists in throwing the entire carcase, except the hind legs, of the sheep or bullock, into a large boiler or vat, and by the process of steaming, the whole of the fatty parts are extracted and received into casks, ready for The hind legs, which shipment to England contain but little fat, are sold, and the price of good mutton is thus reduced to one penny, or even a halfpenny per pound

The extent to which the slaughtering system has been carried, is shown in the following statement of the quantity of tallow and lard produced in New South Wales in 1848.-

Number of Borling-down Establishments, Cattle, Sheep, &c , slaughtered, and Tallow and Lard produced

Number of	Sydney, within the settled Dis	Sydney, without settled Dis	Port Phillip District	Total
Establishments Sheep Horned Cattle Tallow, cwts Hogs Lard, cwts .	41 141,573 27,682 49,311 23 875	14 24,128 5,415 11,530 33 990	7 120,691 5,545 27,725 2	62 286,392 38,642 88,567 58 2,065

The system has now been in operation for six years; in 1843, there was produced 5.680 cwts. of tallow, value £9.639; in 1848, 98,213, value £140,579.

Year	Quantity	Value
	Cwt	
1843	5,680	£9,639
1844	56,609	83,511
1845	71,995	102,746
1846	20,357	28,107
1847	69,690	108,186
1848	98.213	140,579

Mr. Gideon S. Lang, in a work on "Land and Labour in Australia," furnishes the following estimate of the wool and tallow

pied, and the stock of the middle district of the colony has increased in the same proportion-sheep and cattle in the same ratio to

	Sydney	Port Phillip
Sheep	8,631,250	5,000,000
Cattle	2,125,300	500,000
Cast five years old .	2,151,310	1,100,000
Consumption, export, & dead	774,907	562,200
Melted	1,377,373	537,800
Tallow (20 lb per sheep, 186 lbs per hd of cattle)	33,493	8,900
	23,735,937	13,750,000

Value of the above produce in Britain wool, 37,485,937lbs., at 1s. 3d = £2,342,871; tallow, 42,393 tons, at £40 per ton = £1,695,720 Total—£4,038,591.

At no distant day, Australia will render us independent of Russia, for the supply of tallow, as it has already done of Germany or Spain, for the supply of wool.

WINE AND BRANDY. - The number of acres planted with the vine, and the product thereof, on the 31st of March, 1849, was as follows ·--

Counties	Acres	Wine	Brandy
SYDNEY DISTRICT -		Gallons	Gallons
Argyle	7	50	
Bathurst	4	450	
Bligh	31/4	74	
Brisbane	79	4,467	4
Camden	60	21,350	260
Cook	24	330	
Cumberland	259	17,413	352
Durham	162	29,808	75
Georgiana	-		-
Gloucester	82	4,045	72
Hunter	191	957	
King	6	25	25
Macquarie	22	4,300	280
Murray	61	30	papered
Northumberland .	112	11,001	95
Phillip	1 1 1	180	
Roxburgh	25	2,560	
St Vincent	-	-,	
Stanley	$2\frac{1}{2}$		
Wellington	,		
Westmoreland	02		
Beyond settled Dis.	11	260	
Total in 1848	887	97,300	1,163
" in 1844	508	33,915	751
PORT PHILLIP DIS			
Bourke	57		
Grant	48	6,000	100
Normanby	3	306	100
Tiorniano,	•	550	
Total	108	6,306	100
Gen Total in 1848	995	103,606	1.263

Australia will become an extensive wine the intercourse between England and Auscountry: the grape thrives in every locality. although in some soils better than in others; and the wine made has not the earthy flavour British empire. peculiar to some of the Cape of Good Hope

Claret. &c. menced vine cultivators, and manufacturers 1848:of wine and brandy, whom he has sent out to the colony with their families; and he will thus have the honour of conferring on the colony a benefit nearly equal to that which his respected father conferred by the introduction of fine-woolled sheep. Sir T. L. Mitchell, the surveyor-general of New South Wales, in 1847 visited Spain, and obtained useful information on the mode of preparing raisins, that he might be still more extensively useful to the land of his adoption The olive and mulberry are peculiarly fitted to the soil and climate of New South Wales: and olive oil and silk may, ere long, be added to its list of products. Indigo grows wild in several districts in New England, where the soil and seasons are well adapted for the growth of coffee, tea, cocoa, and sugar. Cotton and tobacco ought also to become very valuable articles of export. Moreton Bay, and the regions to the northward, to which Dr. Lang has drawn public attention, will doubtless, in time, possess great plantations of cotton, tobacco, rice, and other articles which we now receive from the United States. Australia can procure from India, from China, and from the islands of the Eastern Archipelago, any required quantity of free labour, confidently look forward to the period when woods will be stated .-

tralia will constitute one of the largest and most lucrative portions of the traffic of the

The extension of pasturage is furnishing wines. The manufacture is yet in its infancy. an increasing supply of dairy produce, which The Australian wines bear a strong re- will not only render the colonists indesemblance to good Sauterne, Barsae, Hock, pendent of foreign supplies, but also yield Lieutenant-colonel M'Arthur a surplus for export. The decreasing imrecently visited several of the wine districts ports and increasing exports of butter and in Germany and France, selected expectheese are thus stated, from 1843 to

~	Impo	rted	Exported		
Year	Quantity	Value	Quantity	Value	
	lbs		lbs		
1843	248,170	£9,497	81,173	£3,488	
1844	60,704	1,184	188,174	3,717	
1845	22,216	579	172,368	4,313	
1846	45,456	1,062	100,287	3,665	
1847	10,164	413	253,880	5,977	
1848	15,456	417	216,130	4,116	

The cheese and butter made in New South Wales are excellent; "Mrs. Rankin's cheese," prepared at Bathurst, would sell well in England; other ladies are now turning their attention to a matter peculiarly within their province, and the markets of India and China will take off their hands whatever they can prepare.

Timber has not hitherto formed a large article of export; in the earlier condition of the colony, cedar and blue gum were its staple products; but other and more valuable items have usurped their place. The country around Moreton Bay must, however, contain abundance of good furniture wood, which is always in demand in England. The following shows the imports and exskilled in the cultivation of these great ports of timber for several years into staples of European consumption, at a price New South Wales. In the book on Western of fourpence or sixpence per day; and I Australia the quality of the Australian

.Imports for the under-mentioned years

Year			Other Timber					Total
rear	Deals	Sawn, &c	Wrought	Shingles	ungles Laths		wood	Value
	Quantity	Quantity.	Quantity	Quantity	No	No	Tons	
1843	12,327	212,890 ft. 509 loads	82 packages	3,000	115,000	172,000	107	£10,156
1844	2,951	{ 101,228 ft. 108 loads }	54 do. {	414,000 3 loads	} –	500,000	90	4,195
1845	{ 10,457 256 loads	604,524 ft. 541 loads	5 prs. sashes		254,500	128,630	415	10,541
1846	31,256	1,255,569 ft.	- {	1,485,000 15½ loads	461,750	392,570	44	10,278
1847 1848	22,418 17,952	2,483,431 ft. 2,652,970 ft.		2,633,600 4,199,000	1,424,800 1,320,900	675,742 767,915	351 50	14,951 16,347

Exports for the under-mentioned years

Year	Quantity of Cedar	Quantity of Blue Gum, Pine, and other Timber	No of Treenails and Spokes	Value
1828	847,805 superficial feet	215,541 superficial feet	65,837 £	11,428
1829	940,486 ditto .	608,647 ditto		16,293
1830	368,830 ditto .	179,403 ditto	23,959	5,218
1831	580,393 ditto .	416,857 ditto	24,316	8,401
1832	418,930 . ditto	233,653 ditto	186,831	6,132
1833	1,086,437 ditto .	147,170 ditto		13,153
1834	899,492 ditto .	30,065 ditto	212,467	7,941
1835	907,921 ditto .	145,628 ditto	178,969	10,489
1836	1,409,467 ditto .	3,778 ditto	35,094	14,385
1837	116,828 ditto	18,828 ditto	62,989	14,463
1838	699,066 ditto	9,000 ditto	73,450	6,382
1839	729,001 ditto	823 deals 15 logs }	40,588	8,815
1840	1,250,786 ditto .	151,500 superficial feet	4,350	20,971
1841	513,139 ditto .	1,000 ditto .	26,890	7,004
1842	522,882 ditto .	27,404 ditto .	55,644	5,800
1843	944,121 ditto	10,020 ditto	155,294	9,813
1844	1,222,533 ditto	99,500 superficial feet 33 logs	105,428	8,825
1845	781,415 superficial feet	73,300 feet }	105,908	8,074
1846	956,515 ditto .	390,006 feet	113,972	7,851
1847	953,995 ditto .	46.850 feet	165,648	7,333
		22,150 feet	,	.,
1848	863,507 ditto .	20 pieces	^{76,201}	5,675

Note -1844, Also a large quantity of Timber, the measurement of which was not stated when entered at Custom House

The manu	factories i	in 1848	were
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The manuactories i	IL 1040 WEIE
Manufactories, &c	$\left. ext{Sydney} \right _{ ext{Phillip}}^{ ext{Port}} ext{Total}$
Grinding and dressing grain	ı —
Steam	57 65
Water	56 43
Wind	25 26
Horse	39 38
Total	157 18 175
Distilleries	. 2 2
Rectifying and compound	. 2 2 2 mg 2 2
Breweries	12 21
Sugar refining	. 2 2
~ 0	15 18
Tobacco and snuff	4 4
Woollen cloth	6 6
Hat	4 4
Rope	4 4
Tanneries, &c	33 40
Salt	2 2
Starch	1 1
Blacking	2 2
Patent oatmeal and groats	1 1
Salting establishments .	1 2
Meat preserving ditto	3 3
Potteries	3 3 7 7
Glass works	2 2 1 1 1 2 3 3 7 7
Smelting ditto, copper .	1 1
Iron and brass founderies	
Patent slip for ships	
Steam vessels	17 17
Fire engines	
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, on. i.	

At the woollen manufactories there were made, in 1847, of cloth, 18,484 yards; of tweeds, 156,604 yards; and blankets, 424. The tweeds, an excellent fabric, command a ready sale, and are now becoming an article of export; the manufacture will, doubtless, be extended The materials for making soap abound; the thirteen soap manufactories made, in 1848, 24,180 cwt. tobacco manufactured is about 1,000 cwt. annually, and as the climate is well suited for its culture, the preparation of the "weed" will, doubtless, be improved. One sugarrefining establishment, in 1848, turned out 26,000 cwt. of refined sugar. The preceding list of manufactories shows how greatly the colonists desire to render themselves independent of supplies which increase their imports, and for which they have not yet adequate exports. In the article of blacking, alone, they say the value of imports has been reduced by £10,000 annually; it will, however, be a sounder policy, to increase the number and quantity of their exports for the English market, by which they will be enabled to procure manufactured articles at a far cheaper rate than they could be prepared in the colony.

The minerals will ultimately be a source

3 z

of wealth. The coal mines in the colony, their produce in 1848, and the value of it, was :-

Mines	Coal	Value
Aust. Agric. Co Newcastle Ditto at Lake Macquarie Ditto at Burwood Ditto at Maitland Ditto at Morpeth . Ditto at Moreton Bay .	Tons 34,381 1,700 1,738 7,023 205 400	£11,737 510 608 1,265 35 120
Total	45,447	14,275

All but the first-named mine are in the early stages of their working; some only commenced in 1848

There are five copper mines commencing work, viz —at Bathurst, Yass, and Molong The Fitzrov iron mine at Berrima has had its machinery put up and shaft sunk in 1848. In the language of the official report to government, "the ore of this mine has the peculiar property of turning into pure steel when smelted" If gold, as is expected, be found in large quantities, another valuable article of export will be provided, for the precious metal will henceforth become a merchantable commodity, and rank among exchangeable products. Gold is a raw product, and answers the same purpose as wool, tallow, oil, timber, copper, iron, or any other article, in enabling its finders to purchase such merchandize as they may If, therefore, gold exists in Australia, to an extent at least equal to that found in California, there can be no reason for preventing the colonists gathering it Every pound of gold raised in the mines or valleys of the Australian Alps, will enable the colonist to purchase a pound's worth of English manufactures. The currency of the United Kingdom is very far below the amount required for a remunerating interchange of labour and goods. In England, the whole gold, silver, copper, and bank-note currency, in actual circulation, is not £3 sterling per head; in Scotland, it is nearly £5; in Ireland, it does not amount to much more than ten shillings for each inhabitant whereas a full currency ought, at the very least, be equal to £10 sterling per head, enterprise a hazardous speculation. The interior, he and his men were often refreshed

production of large quantities of gold in Australia would, therefore, be a great gain to the colonists, and a boon of incalculable value to the people of England.

The important subject of emigration will be fully discussed in the last volume of this work, and a fair examination be made of the relative advantages and prospects of the several colonies for different classes of emigrants; it will consequently be only desirable to give here the annexed statement of the average prices of food, and the general wages of labour in New South Wales during the year 1848, by which intending emigrants of the poorer class can judge the cost of living, and the means available for its support. It is calculated that New South Wales could with case afford remunerative employment annually to 10,000 additional ablebodied immigrant labourers for the next ten years, and there is no country better adapted for a man whose power of manual labour is his sole property, and who possesses the indispensable requisites of honesty, sobriety, and persevering industry .--

Average Prices of Produce during 1848 at Sydney —Wheaten flour, 10s to 12s per 100 lbs, wheat, 4s to 4s 6d per bushel imperial, wheaten bread, 24d to 3d loaf of 2 lbs, maize, 1s 5d to 1s 10d per bushel, barley, 2s 6d to 3s 6d, oats on rye, 28 6d to 48 6d, potatoes, 3s to 6s per cwt., hay, £4 to £6 per ton, straw, £2 5s to £2 10s, horned cattled, £2 5s to £2 10s per head, horses, £4 to £20 each, sheep, 5s to 7s 6d per head, goats, 5° to 15° each, swine, 7° 6d to £2; milk, 6d per quart, butter, fresh, 6d to 1° per lb; salt, colonial, 5d to 10d, cheese, colonial, 4d, fresh beef, 14d to 2d, mutton, 2d, fresh pork, 4d to 5d; rice, $2 \nmid d$, coffee, 8d, tea, 1s. 4d, moist sugar, $2 \nmid d$, salt, 1d, wine (Cape), 4s per gallon, brandy, 16s, rum, imported, 10s; beer, colonial, 1s 4d; tobacco,

imported, 3s 2d per lb, tobacco, colonial, 1s 3d Waye: of Labour—Domestic, male, £18 to £40 per annum, female, £12 to £25, predial, £18 to £25, trades, £35 to £40

Weights and Measures, as in England.

Fruits and Vegetables -The fruits and culmary vegetables of Australia are numerous and of excellent quality. In a small garden at Paramatta I had the apple, pear, peach, nectarine, apricot, loquat, quince, cherry, plum, melon, pine-apple, figs, citron, orange, grape, mulberry, walnut, gooseberry, strawberry, raspberry, and current, all in full perfection. So abundant is the peach, otherwise the nation is exposed to the vicis- that, in many places, I have seen the farsitudes arising from the alternate states of a mers feeding their pigs with the windfalls deficiency or a plethora of money. pame of their teeming orchards. My lamented succeeds prosperity in a vicious circle, ren- friend, the late Allen Cunningham, informed dering commerce a gambling game, and me, that during his explorations in the and nourished by finding peach-trees scat- to yield the finest silk. The neighbourhood every occasion, in suitable places. from their peach fruit.

above-named, are the almond, which flou- soil and climate were very similar to those of rishes remarkably well, banana, in the more New South Wales. The walnut, filbert, and northern positions The fig produces two chestnut are in perfection, especially the crops in the year, without any further filbert, which are of a size and flavour unsurtrouble than that of planting, the fruit is passed. of the finest flavour, abundant in quantity, Europe are of large size and excellent presses well, and will probably become a flavour Potatoes, carrots, parsnips, turnips, valuable article of export Grapes, of every onions, peas, beans, cabbages, spinach, artibeing dried as raisins, as well as extensively manufactured into wine, brandy, and vinegar The Chinese fruit, termed loquats, are as fine as any I ate in China. While on this subject, I venture to recommend to the colonists the introduction of the lichee, and other excellent fruit, which I obtained at Foochoofoo and at Shanghai Our consuls at those stations could readily procure the young fruit-trees. Melons, water and sweet, grow almost wild in New South The farmers scatter a few seeds a size of twenty-four pounds weight. The lemon flourishes as standards or as hedgeperfection greater than I have witnessed in richer sight can hardly be conceived than Mr Suttor's orangerie near Paramatta I remember rightly, I walked through one habits grove of large orange trees, in full bearing, which was more than a quarter of a mile in South Wales was for many years in a very length, and I believe the respected pro- unsatisfactory state, the imports were in prietor found it a very profitable article of value about five times that of the exports, production. Mr Mobbs also realized a and the balance of payments in exchange handsome fortune from his orangerie mulberry thrives in every part of the colony, sury in London to meet the convict expendiand its growth may be augmented to an ture in the colony. There were then few almost indefinable extent for the feeding of exportable articles, and it was feared that no silkworms, but I would recommend the staple products available for transmission to obtainment of a peculiar species of mulberry | England could be created By extraordiwhich grows near Nankin, and in the regions nary energy these difficulties have been

tered about in the forest, where they had of Port Stephens and Port Macquarie ought grown from stones planted by bush-rangers, to be among the most productive silk counor from having been dropped by birds. In tries in the world, and to render them so grateful recognition of the benefits thus skilled, Chinese might be induced to settle received, as a weary and fainting traveller, in the country, bringing with them the Cunningham always carried about him a mulberry and best silkworms. The olive bag of peach stones, which he planted on affords great promise wherever the vine The yields well, there the olive generally thrives small settlers make a cider and a brandy I noticed how this valuable commercial shrub flourished at Ithaca, Cephalonia, and Among other fruit-trees, besides those along the coast of the Morea, where the All the culmary vegetables of variety, are very plentiful, and are now choke, asparagus, celery, cucumbers, radishes, seakale, yams, rhubarb, &c, would be highly prized in Covent-garden market The various beautiful flowers which adorn the gardens of England are extensively cultivated in New South Wales, where they attain a magnitude and beauty which add to their natural charms. The saying, that the fruits of Australia are without flavour, and the flowers devoid of odour, refers to those of the country, and not to the introductions from Europe. The annual exhibitions of the "Australian Floral and Horticultural Society," at Sydney, fairly among their corn, and they thrive so luxu- rival those of Chiswick or Regent's-park, riantly as to be scarcely an article of sale, and the botanical gardens at Sydney, the except in the towns They sometimes attain governor's gardens at Paramatta, those of Mr M'Arthur, and other colonists, are equal, in extent and variety, to many of the The orange arrives at a degree of best gardens in the United Kingdom. The Englishman carries his love of fruits and any other country excepting Malta A flowers to whatever country he makes his home, and, in Australia, he has full scope If for the gratification of his refined taste and

Maritime Commerce —The trade of New The was defraved by bills on her majesty's treabordering the great river Yangt-tse-kiang, surmounted; there is now no convict ex-which is found by the experienced Chinese penditure from the home exchequer, and an examination of the annexed complete returns | last twenty years will shew, that they are of the value of imports and exports for the | now balanced the one against the other.

Imports into New South Wales and Port Phillip, 1828 to 1848.

Year	From Great Britain	From British Colonies	From South Sea Islands	From Fisheries.	From United States	From other Foreign States	Total
1828	£399,892	£125,862	_	£44,246	_		£570,000
1829	423,463	135,486	_	42,055	_		601,004
1830	268,935	60,356	_	91,189			420,480
1831	241,989	68,804		179,359	-		490,152
1832	409,344	47,895	_	147,381			604,620
1833	434,220	61,662	1 - 1	218,090		- 1	713,972
1834	669,663	124,570	-	197,757			991,990
1835	707,183	144,824	£1,420	177,365	£13,902	£70,161	1,114,805
1836	794,422	220,254	1,972	135,730	22,739	62,289	1,237,406
1837	807,264	300,313	1,764	80,441	9.777	97,932	1,297,491
1838	1,102,127	309,918	5,548	71,506	8,066	82,112	1,579,277
1839	1,251,969	576,537	3,863	186,212	23,093	194,697	2,236,371
1840	2,200,305	431,146	1,348	104,895	24,164	252,331	3,014,189
1841	1,837,369	332,296	24,361	97,809	35,282	200,871	2,527,988
1842	854,774	298,201	10,020	64,999	20,117	206,948	1,455,059
1843	1,034,942	227,029	22,387	42,579	12,041	211,566	1,550,544
1844	643,419	153,923	10,624	32,507	17,187	73,600	931,260
1845	777,112	237,759	40,048	43,503	7,416	128,016	1,233,854
1846	1,119,301	262,943	21,799	56,461	4,459	165,559	1,630,522
1847	1,347,241	388,724	6,919	41,557	1,550	196,032	1,982,023
1848 1849	1,084,054	263,787	2,642	73,715	2,065	130,287	1,556,550

Exports from New South Wales and Port Phillip, 1828 to 1848.

Year	To Great Britain	To British Colonies	To South Sea Islands	To Fisheries	To United States	To other Foreign States	Total
1828	£81(08	£4,845		£6,708	_		£90,050
1829	146,283	12,692		15,821	l —	- 1	161,716
1830	120,559	15,597	-	_	l —	! -	141,461
1831	211,138	60,354	_	16,949		_	324,168
1832	252,106	63,934	i —	19,545	l —	-	384,344
1833	269,508	67,344				- 1	394,801
1834	400,738	128,211		28,729		_	587,640
1835	496,345	83,108	£2,696	39,882	£18,594	£3,011	682,193
1836	513,976	136,596	9,628	30,180	13,697	2,625	748,624
1837	518.951	157,975	485	54,434	10,617	17,592	760,854
1838	583,154	160,640	7,137	33,988	11,324	6,525	802,768
1839	597,100	289,857	1,347	34,729	18,568	7,175	948,776
1840	792,494	520,210	6,621	27,864	27,885	24,618	1,399,692
1841	706,336	238,948	13,144	18,417	4,837	41,715	1,023,397
1842	685,705	298.023	3,005	22,862	17,101	40,715	1.067,411
1843	825,885	285,756	17,934	18,827		23,918	1,172,320
1844	854,903	236 352	14,106	11,623		11,131	1,128,115
1845	1,254,881	276,788	17,656	1,593		5,068	1,555,986
1846	1.130.179	328,922	13,441	590		8,407	1,481,539
1847	1,503,091	335,137	14,231	_	l —	17,587	1,870,046
1848	1,483,224	335,887	6,944			4,313	1,830,368
1849	-,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-,	-, -,

The relative proportion of the shipping thus shown by the tonnage entering inwards engaged in the trade of Sydney, New South from Great Britain, the British colonies, and Wales, and of Melbourne, Port Phillip, is elsewhere, in 1848:—

	Fr	From British			2 1011			From		From		From other Foreign		Total			
Great Britan		Britain	New Zealand		Elsewhere I			Islands		Fisheries		United States		States		Total	
Sydney Port Phillip	No 71 48	Fons 34,300 23,29	No 106 10	Tons 23,877 956		Tons 45,173 42,349		Tons 2,695	No 63	Tons 17,473	No 1	Tons 406	No 30 5	Tons 7,753 1,018	No 527 469	Tons 131,686 67,618	
Total	119	57,604	116	24,883	639	87,522	23	2,695	63	17,473	1	406	35	8,771	996	199,304	

The number and tonnage of vessels which			
Wales (including the district of Port Phillip),	from the year 1837	to 1848, inclusive, w	88

	From Great Britain				From South Sea		From		From		From other		m.4.1			
Year					Elewhere		Islands		Fisheries		United States		Foreign States		Total	
1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1846 1847	No 56 102 137 190 251 137 87 78 80 84 88 119	Tons 21,816 41,848 58,123 80,806 106,332 55,144 35,914 34 765 29,954 36,761 37,941 57,604	36 38 51 68 48 81 43 54 62 62 75	Tons 5,480 4,291 8,368 13,123 7,601 14,085 6,229 7,189 6,237 10,865 10,516 24,833	No 233 241 290 347 322 282 325 226 364 475 565 639	Tons 33,751 34,469 45,928 53,625 43,922 42,365 43,934 31,195 47,532 57,480 69,614 87,522	No 5 6 7 6 3 19 25 13 24 27 25 23	Tons 581 616 836 750 358 2,902 4,194 1,831 2,612 3,005 2,443 2,695	No 48 31 36 27 23 20 30 27 37 79 78 63	Tons 13,004 7,928 9,321 8,087 6,163 5,806 7,967 7,888 11,900 24,375 22,558 17,473	No 5 1 4 8 13 7 5 3 1 1 1 1 1	Tons 1,220 274 1,177 2,520 4,754 2,762 1,116 1,005 243 370 160 406	No 17 9 38 63 64 82 43 16 29 36 46 35	Tons 4,262 2,351 11,721 20,047 14,648 20,857 11,510 3,666 6,874 8 606 11,672 8,771	No 400 428 563 709 714 628 538 417 597 767 878 996	Tons 80,114 91,777 130,474 178,958 183 778 143,921 110,864 87 539 105,352 141,467 154 904 199,304

Duties levied under the authority of Acts of Parliament—(1) Upon all spirits made or all vessels above fifty tons entering any port distilled in the colony, 3s $6\hat{d}$ per gallon, (2) Upon all rum or whisky imported, 3s 6d per gallon; (3) Upon all other spirits and within the previous four months. Coasting liqueres whatsoever imported, 6s. per gallon, (4) Wine imported, fifteen per cent additional value, (5.) Tea, sugar, flour, meal, wheat, rice, and other grain and pulse imported, 5s. per cent additional value, (6) Tobacco unmanufactured, 1s. 6d per lb., (7) Tobacco manufactured, 2s. 6d. per lb, (8) All other goods, wares, and merchandize, not being the produce or manufacture of the United Kingdom, imported into the colony, Wine imten per cent. additional value ported for the use of military and naval officers on full pay, free of duty.

There are also wharfage rates levied at public and private sufferance wharfs, and on all descriptions of goods imported for instance, at public wharfs, on beer, per hhd 6d.; on wine or spirits, 1s. per leaguer, on sugar, 1s 4d per hhd.; on unenumerated goods, 2s 4d. per ton. There is also a rate levied of one halfpenny per ton per diem on vessels unloading or refitting, beyond a certain number of days, for instance, thirty-five days are allowed free for a ship of 500 tons

Custom House Charges

		_				
Description	Cu	ston Cha:	H	Light House Dues		
	En	try	Cl	ear	Pe	r tor
For the entry inwards or clearance outwards of ships or vessels (yes sels under 50 tons registered in Sydney excepted), for any steam vessels in the coasting trade from one port to another of New South Wales	ls	3 <i>d</i>	1s	3 <i>d</i>	0s	0 <u>‡</u> d
For every other vessel so emptied above 50 and not exceed 100 tons	2	6	2	6	2	0
For every other vessel so emptied above 100 tons For every other ship or vessel	7 15	6	7 15	6	0	2 2

A Tonnage Duty is levied of 3d. per ton on n the colony, unless the same shall have been paid at any other port of the colony essels pay only once a-year.

Harbour Dues, varying from 5s. on vessels under fifty tons, to 30s on vessels of 500 tons and upwards, are levied on entry of harbour, or on shifting anchorage, not for the purpose of leaving port Coasting vessels from one port of the colony to another xempted.

The value of the trade in articles of British and British colonial produce and manufacture, is shewn in a return only complete for the last five years. It includes, as does the previous and subsequent statements, Port Phillip district -

Imports

Year	United Kingdom	British Dominions	Foreign States	Total
1844	£629 510	£154,572	£147,178	£931,260
1845	786,514	156,491	290 849	1.233,854
1846	1 111 238	,	430 646	1,630 522
1847	1 269,183	95,118	617,722	1,982,023
1848	1,029,926	114,900	411,724	1,006,550

Exports

Year	New South Wales		British Dominions	Foreign States	Total
1844	£864 709	£119,197	£64,266	£79,943	£1,128 11
1845	1 269 062	100 901	110,160	75,863	1,050,986
1846	1 201,433	120 424	80,499	79,183	1,481,539
1847	1,649 031	136,385	15,865	68,765	1,870,046
1848	1,621,509	127,368	22,220	59,271	1,830,368

It appears from the foregoing that imports from the United Kingdom of British produce and manufacture in 1848 were, in value, upwards of £1,000,000 sterling, or more than £5 per head of the population. The 1mports into the United States of British goods do not amount to ten shillings per head.

The increase of the imports of New South will give a good idea of the importance of a Wales between 1835 and 1840 was very remarkable; a few items will shew the progress into various branches of manufactures, and how the consumption of goods made at home

Agricultural implements, in 1835, nil; in 1840, £4,565; apparel and slops, £58,658 and £144,890; bacon and hams, 44,373 and 675,785 lbs; beef and pork, 2,544 and 19,766 barrels; beer and ale, 421,697 and 1,292,701 gallons; books, £4,699 and £12,791; butter, 74,090 and 338,775 lbs, cabinet and upholstery ware, £4,026 and £16,186, coffee, 183,803 and 469,457 lbs.; copper (sheet and old), 41,581 and 358,788 lbs.; cordage, 3,642 and 10,103 cwts; corn and wheat, 101,283 and 224,021 bushels; other grain, 21,161 and 76,276 bushels, wheat and flour, 3,672 and 21,882 bushels; cotton manufactures, £61,196 and £142,150 (in 1839, £230,775), earthenware, £6,820 and £20,179; fruit, of all sorts, £2,597 and £16,356; glass manufactures, £36,622 and £63,425; haberdashery, £22,510 and 66,713, hardware and cutlery, £18,253 and £79,970, hats, £12,777 and £23,245, hops, 10,332 and 126,696 lbs; unwrought iron, 2,758,560 and 8,593,618 lbs; wrought iron, £20,235 and 67,943, lead and shot, 315,590 and 1,104,609 lbs, leather manufactures, £7,216 and £32,593, linen manufactures, £29,454 and £66,955; machinery, nil and £8,493, medicines, £708 and £17,230; cocoa-nut oil, nil and 14,606 gallons, painters' colours, £7,223 and £15,545, pickles and sauces, £7,223 and £15,545, rice, 859,060 and 7,517,716 lbs.; saddlery, £5,314 and £22,417, salt, 76,278 and 154,322 bushels, silk manufactures, £21,927 and £44,590, soap, 399,754 and 2,656,780 lbs, spirits of all sorts, 327,990 and 627,476 gallons; statuonery, £11,755 and £36,744, raw sugar, 5,176,730 and 11,269,856 lbs; refined sugar, 411,391 and 1,039,078 lbs; tea, 1,311,357 and 1,189,100 lbs, tobacco, £13,194 and £78,340, wine, of all sorts, 313,427 and 494,285 gallons, woollen manufactures, £33,348 and £111,979. Aggregate value of *imports*, £976,091 and £2,548,775; aggregate value of exports, £675,226 and £1,289,036 Sheep's wool, 3,908,177 and 9,541,474 lbs, tallow, 12,026 and 48,874 lbs, number of sheep and swine, 2,154 and 24,153, number of neat cattle, 225 and 3,365.

Although the aggregate value of the imports exceeded that of the exports, yet there was a large increase not only of the staple products of the colony, but also of many imported articles, which passed through New South Wales as a depôt in transitu to other surrounding countries. I do not know a similar rapid increase of commercial prosperity in any other country, and but for the injurious imperial legislation and orders from England, this wonderful prosperity would most probably have remained unchecked, and England would have participated in the welfare of its distant dependency.

The return of articles imported into the Sydney district alone (exclusive of Port Philip) during the year 1847, gives the estimated value in the colony at £1,544,327, and for 1848 £1,182,874 An enumeration of some of the principal articles imported from Great Britain during the year 1848

colonial trade to England; how it enters into various branches of manufactures, and how the consumption of goods made at home fosters and promotes a taste, which must increase, and which materially tends to create a preference for Engligh over foreign goods During the year 1848, 117 distinct articles were imported into Sydney from Great Britain, I select from the list before me a few of the leading articles, shewing the imported. quantities Excepting sugar. 9,988 tons, and tea 2,108,916 lbs (value £71,353 and £26,142,) nearly every other article was from the United Kingdom.

Quantity and Value of some of the Articles of British Produce imported into the Sydney District British Produce imported into the Sydney District during the year 1848—Alkah (soda), 3,325 cwt., £2,188, apparel and slops, 1,507 bales, £55,510, ammunition—gunpowder, 34,466 lbs, £1,295, shot, 964 cwt, £1,009, bags and sacks, 376 bales, £4,205, beer and ale, 475,433 gallons, £54,804, blacking, 331 casks, £892; blankets and counterpanes, 150 bales, £5,661, brushware, 141 packages, £2,312, canvas, 466 bales, £7,867; carpeting, 118, £2,648; carpaiges and corriage materials, 67 packages, £1,652, painters' colours, 4,001 kegs, £4,883; copper, 2,341 cwts, £10,058, cordage and rope, 3,835, £3,674, corks and bungs, 271 bales, £1,305, cottons, 1,696, £64,919; drugs and medicines, 1,369 cases, £9,594; earthenware and china, 1,090 crates, £10,284, salt fish, 833 barrels, £1,632, furniture, 928 packages, £3,258, glass and glassware, 3,685, £8,502, grindery, 86 casks, £1,566, haberdashery, 1,527 cases, £73,597, hardware and ironmongery, 7,800 packages, £65,029, hats, caps, and bonnets, 365 cases, £6,730, hops, 925 pockets, £3,703, horse hair, 56 casks, £1,248, hosiery and gloves, 262 cases, £11,829, musical instruments, 101 cases, £3,708, iron and steel, 2,451 tons, £22,533, jewellery, 32 cases, £2,529; lead, 165 tons, £3,022 unmanufactured leather, 32 cases, £1,230, boots and shoes, 624 trunks, £13,529, linens, 1,567 cases, £50,272; lucifer matches, 99 cases, £975, machinery, 99 packages, £1,484, malt, 3,511 casks, £2,245, millinery, 93 cases, £3,833, iron nails, 2,253 kegs, £3,188, copper nails, 652, £1,821; oil cloth, 20 cases, £257, oilman's stores, 9,644 packages, £28,927; perfumery, 100 cases, £1,291; tobacco pipes, 2,408 boxes, £2,454; pictures and paintings, 41 cases, £1,256, pitch, tar, and resin, 1,957 barrels, £878, plate and plated ware, 28 cases, £1,284; saddlery and harness, 197 cases, £6,368, salt, 3,715 tons, £9,403; ship chandlery, 68 packages, £666, shooks and staves, 13,404 bundles, £133; silks, 131 cases, £12,348; number of slates, 41,000, £170; spirits—brandy, 118,819 gallons, £28,316, rum, 223,706, £26,406, gin, 42,669, £8,954; whisky. 9,480, £2,425, liqueures, 1,212, £403; starch and blue, 499 cases, £1,176; stationery and books, 1,891 cases, &c, £33,156; tm and tmware, 1,296 boxes, £2,456; tobacco, cigars, and snuff, 572,406 lbs, £10,968; toys and turnery, 243 cases, £3,315; turnentine and varnish, 2,406 gallons, £3,71, twine and thread, 98 packages, £1,542, umbrellas and parasols, 22 cases, £1,203; vinegar, 21,946 gallons, £1,368; watches and clocks, 81 cases, £415; wine, 302,741 gallons, £37,918, woollens, 1,508 bales, &c, £57,365; woolpacks and bagging, 471 bales, £8,350; zinc, 910 cwts., £228.

nev alone, were wood 12,445,048 lbs., value were valued at £14,112, and included 2,450 £683,628; woollen manufactures (Tweeds), tons of coals, value £884, or 7s. 2d. per ton; 59 packages, value £1,468; tallow, 3,565 3,484 sheep, 379 horned cattle, 58 horses. tons, £102,611; horses, 1,181, £14,137, 2,000 lbs. of flour, 102 bushels of barley. horned cattle, 10,208, £16,457, sheep, 25,331, £8,737 (about 6s. 10d. per sheep); sperm oil, 1,186 tuns, £64,230; black whale Zealand. To England were sent from this oil, 196 tuns, £3,177; whalebone, 11 tons 2 cwt. £1.385; skins of neat cattle, 1.308 tons, £17,498; soap, 121 tons, £2,716; cedar, 863,307 feet, £5,133; leather, unmanufactured, 108 tons, £5,702; maize, 27,058 bushels, £3,063; butter and cheese, 81 tons 9 cwt., £2,836; tallow candles, 69,804 lbs, £1,117; coals and coke, 6,266 tons, £2,980, carts and waggons, 244, £2,010. Of the total exports nearly 1,000,000 sterling (£963,590) consist solely of the produce of the colony. out of £1,155,009, total exports, the amount sent to Great Britain was £901,869, to New Zealand £163,938, and to other British possessions £78,210.

There are other ports in the Sydney distrade with England and other places The upairs, refitting, and refreshment.—

The principal exports for 1848, from Syd- exports from the port of Newcastle in 1847 2,748 lbs. of maize, ten and a half tons of hay, and other articles were all sent to New new port in the same year-wool 169,611 lbs., value £9,435; tallow, 30,428 lbs., value £600, The trade of Melbourne will be given when describing Port Phillip.

The ports of Australia, Van Diemen's Island, and New Zealand, are favourably situated for carrying on the whale fishery in the southern hemisphere. Since 1845 whalers have been exempted from port charges in Sydney harbour, and the following is a return of the ships and vessels engaged in the fisheries that have visited Port Jackson during the last five years; distinguishing those that are colonial, British, or foreign, with the tonnage of each description, and the estimated value of the cargoes disposed of by trict which are now commencing a direct the last-mentioned class for payment for

Year	Colonia	l Vessels	British Vessels	Foreign	n Vessels	Descripti	on and Valu		disposed
	Number	Tonnage	Number Tonnage	Number	lonnage	Sperm Oıl	Black Oil	Whalebone	Value
						Tuns	Tuns	Cwt	
1844	13	3,052	1,219	12	3,617	122	152	33	£4,993
1845	15	3,444	2,685	15	5,345	37	122	147	4,269
1846	16	3,894	2,287	55	18,147	203	30	129	6,981
1847	23	5,345	1,137	43	13,866	368	192	673	15,804
1848	26	613	267	37	11,203	158	83	5	4,340

The whale and seal fisheries of New South Wales have of late years diminished, the whale is very migratory, and seems to have endeavoured to elude his persevering pursuers by taking refuge in the Northern Pacific,

where, for the last few years, the fish have been found in great numbers on the coasts of Japan and near Saghalien. The value of the New South Wales fisheries is thus shewn for eighteen years .-

Year	Sperm Whale	Black Whale	Whal	ebone	Seal Skins	Value
	Tuns	Tuns	Tons	Cwt	Quantity	
1828	348	50			7,647 in number .	-
1829	885				12,350 ,,	£94,101
1830	1,282	518		_	5,460	115,780
1831	1,914	1,004	_		4,972 ,,	
1833	3,183	420			2,465 ,,	169,278
1836	1,700	1,178			386 "	126,085
1837	2,559	1,565	77		107 ,,	183,122
1838	1,891	3,055	174	_	S cases	197,644
1839	1,578	1,229	134	14	7 ,,	172,315
1840	1,854	4,297	250	_	474 in number	224,144
1841	1,545	1,018	84	13	41 ,,	127,470
1842	957	1,171	60	5	162 ,,	77,012
1843	1,115	190	22	8	155 " .	72,989
18 44	810	526	15	18	3 bales	57,493
1845	1,352	571	21	13	2 casks, 10 Skins	96,804
1846	1,064	344	17	9		70,126
1847	1,214	331	8	31	1 - 1	80,528
1848	1,186	196	11	2	4 cases	68,969

The number of ships engaged in the whale fishery in 1848, in connection with New South Wales, was 64; viz., 37 foreign; 3 British; 24 colonial: and the producesperm oil, 1,274 tuns, value £67,005; black oil, 389 tuns, £9,180; whalebone, 306 Total value — £77,652. tons, £1,472. At Port Phillip there were four boats engaged, which collected 151 tuns of oil, value £235; whalebone, 6 tons 6 cwt

The increase of the shipping entering the ports of New South Wales has been very great since 1828:-

Year	Number	Tons
1828	137	32,559
1829	158	37.342
1830	157	31,225
1831	155	34,000
1832	189	36,020
1833	210	50,144
1834	245	58,532
1835	260	63,019
1836	269	65,415
1837	400	80,114
1838	428	91,777
1839	560	135,474
1840	709	178,958
1841	714	183,778
1842	628	143,921
1843	558	110,864
1844	417	87,539
1845	597	105,352
1846	767	141,467
1847	878	154,904
1848	996	199,304
		1

In twenty years the number of ships increased seven-fold, and the tonnage six-fold Since 1848 the shipping and trade of the colony have been very largely augmented.

The number and tonnage of vessels built and registered in the colony have been :-

Year	Vesse	ls Built.	Vessels Registered		
	Number	Tons	Number.	Tons	
1834	9	376	19	1.852	
1835	7	303	21	2,267	
1836	9	301	39	4,560	
1837	17	760	36	3,602	
1838	20	808	41	6,329	
1839	12	773	79	10.862	
1840	18	1.207	98	12,426	
1841	35	2.074	110	11,250	
1842	26	1.357	89	9,948	
1843	47	1,433	92	7.022	
1844	18	519	87	8,087	
1845	18	1.042	98	9.376	
1846	28	1.032	83	4,895	
1847	36	2,284	104	9,428	
1848	28	1,561	103	7,584	

The numbers respectively built and registered during 1848 in the Sydney and Port Phillip districts, were-

District	Ships Built		Registered		
Sydney Port Philip	No 26 2	Tons 1,281 280	No 87 16	Tons 6,618 966	Men 336 80
Total	28	1,561	103	7,584	416

I have now recounted the rise and progress up to the present time, of the trade and staple products of New South Wales; that trade is again in a healthy state, and from the large quantity of shipping to which it gives employment, in voyages occupying nearly a year, out and home, a skilful and hardy race of seamen are trained, well adapted for service on any emergency necessary for the national defences.

CHAPTER V.

GOVERNMENT OF NEW SOUTH WALES-PROGRESSIVE GRANT OF FREE INSTITUTIONS -EXAMINATION OF PROPOSED NEW CONSTITUTION-AND LAWS IN FORCE IN THE COLONY.

admiral, and a judge of the vice-admiralty within the latitudes aforesaid."

THE government of New South Wales was York, in the latitude of 10°37'S., to the South founded by an order in council, dated Cape; the southern extremity of the coast, 6th December, 1786. By that order, and in the latitude of 43° 39' S., and inland to the by the king's warrant, dated 3rd April, 1787, westward, as far as 135° E. long., including for issuing letters patent, to appoint a vice- all the islands adjacent in the Pacific Ocean court for the new settlement, its limits were Island was included within the limits of the declared to extend "from the Northern boundary marked out by the order in council. Cape, or extremity of the coast called Cape It was not then known that Van Diemen's

ject to New South Wales until an order in council, dated 14th June, 1825, declared Van Diemen's Land independent of New South Wales, by which Bass' Straits became tration of the criminal law into his own the southern limit of the colony.

By the commission issued to captain Phillip, the first governor appointed by the crown in 1787, full power was given him to pardon all malefactors sentenced to death by the court of criminal jurisdiction, which consisted of a judge-advocate, (captain Collins), and six officers of the sea and land service, acting under a precept issued by the No offender could suffer death unless five members of the court agreed in The governor was fully emthe award powered to make laws for the good govern-The act 27 Geo. III, ment of the colony. c. 2, only authorized his Majesty to establish a court of criminal jurisdiction; but, by an order in council, a civil court was formed, consisting of the judge-advocate, and two inhabitants appointed by the governor, who were to hear and determine, in a summary way, all pleas of lands, houses, debts, contracts, and all personal pleas whatsoever * This civil court could examine witnesses on oath, issue executions under the hand of the judge-advocate, and grant probates of wills and administration of the personal estates of intestates dying within the colony. An appeal lay from this court to the governor, and from him to the Privy Council if the thing quer at Westminster. in demand exceeded the value of £500.

government and of justice was despotic and imperfect. Shortly after the foundation of the period of their sentence to transportation had been completed, but it was found impossible to ascertain if their statements were ney-general. true, as the important documents concerning the crimes and sentences of the prisoners IV., c. 83, s 20) declared it to be inexpehad never been sent from England. So little were even the formalities of jurisprudence preserved, that the judge, after hearing the evidence against a criminal, used to retire with the military jury to deliberate upon the verdict in an adjoining room. It was only on the suggestion of Mr. Bigge, when commissioner of inquiry, that judgeadvocate Wylde charged the members of the court in the presence of the prisoner. The first governors paid little attention to the law court, whose chief, in return, was

* See Clarke on Colonial Law. London: 1834. VOL. 1.

Land was an island; and it continued sub- orders and proclamations issued, from time to time, by the governors, or very strenuous in requiring them to be obeyed. Governor Bligh not unfrequently took the adminishands, and punished whom he chose.

Governor Macquarie, of whom Mr. Wentworth thus speaks-" never was there a more humane and upright man"-also caused "three freemen, two convicts, and two women" to be seized for trespassing on a particular spot · he ordered, without any hearing, both freemen and convicts to be flogged with twenty-five to thirty lashes each, and the women to be imprisoned for forty-eight hours. These and other proceedings led to an investigation of the state of the colony under the authority of a royal commission, and the exertions of Mr Wentworth, a lawyer of much popularity at Sydney, and author of an interesting work on N S. Wales and Van Diemen's Land in 1819, prepared the way for a change in the administration of the government and of justice.

On the 13th of October, 1823, his Maiesty, under the authority of an act of parliament (4 Geo IV. c. 96), issued letters patent constituting a supreme court with cognizance of all pleas, civil, criminal, or mixed, and jurisdiction in all cases whatsoever in New South Wales and its dependencies, after the manner of his Majesty's courts of King's Bench, Common Pleas, and Exche-

In 1823-4, the first step in the progress For several years, the administration of of free institutions was made (under the provisions of the act 4 Geo. IV., c. 96), by appointing a council to aid the governor; the settlement, several convicts stated that this council was formed of the officer in command of the troops, the archdeacon, the colonial secretary, the treasurer, and attor-

> In 1823, an act of Parliament (the 9 Geo. dient to call a Legislative Assembly for the colony, and in lieu of one, provided that it should be lawful for his Majesty under the sign manual to constitute and appoint a council of such persons resident in the colony not exceeding fifteen, nor less than ten, as his Majesty might be pleased to nominate and appoint.

Under the authority of this act of the Imperial Legislature, the governor, with the concurrence of at least two-thirds of the members, might make laws for the colony, not very particular in registering the various if not repugnant to the act 9 Geo. IV. c 83, or to the charter, or letters patent, or orders in council, or to the laws of England. The or tenements, situate within the district for no journals), of the general objects of the act proposed to be brought under consideranotice might be dispensed with.

Any member of the council might request the governor to introduce a bill for the consideration of the council. If the governor declined, he was bound to lay his reasons in writing, together with a copy of the bill. before the council, and any member, disapproving of such refusal, might enter upon the minutes the grounds of his disapproba-If a majority of the members dissented from any bill, and entered the grounds of their dissent on the minutes of council, the bill could not become law. Every bill passed by the council was to be transmitted within seven days to the supreme court, to be enrolled, and after fourteen days from the date of such enrolment, it came into opera-If the judges represented that such bill was repugnant to statutes or other public deeds before cited, it was again brought under the consideration of the council, and if again passed, proceeded into operation, until the pleasure of his Majesty were known, to whom were to be transmitted the opinions of the judges, &c. The votes and proceedings of the Legislative Council were to be officially published in the newspapers The governor and council had the power of imposing taxes for local purposes. By 3 impose, on importation into the colony, duties not exceeding 10s. a gallon on British spirits not exceeding 4s. per lb. on tobacco, nor 15s per cent upon goods, wares, &c, not being the growth, produce, or manufacture of the United Kingdom; and, by 9 Geo. IV, c. 83, s 26, the governor was also empowered to levy a duty upon colonial spirits, not exceeding that levied on imported spirits

In 1842, (30th July), under the act 5 & 6 Victoria, c. 76, a Legislative Council of

governor to have the initiative in the intro- which such franchise is to be exercised, of duction of all laws to be submitted to dis- the clear value of £200 sterling at the least. cussion in the council, provided he gave above all charges and incumbrances in any eight clear days' notice in the public journals, way affecting the same, or a householder or by public advertisement (should there be within such district, occupying a dwellinghouse of the clear annual value of £20 sterling money at the least. No person was tion, unless in case of emergency, when such thus qualified to vote unless he had arrived at the full age of twenty-one years, a natural born or naturalized subject of the queen; and if he had been attainted or convicted of treason, felony, or infamous offence, within her Majesty's dominions, unless he had received a free pardon, or one conditional on not leaving the colony, or had undergone the sentence or punishment to which he had been adjudged for such offence. Voters to be qualified must have been in possession of estate, or occupancy of house, at least six calendar months before the date of writ for election, and have paid up all rates and taxes pavable by him as owner, in respect of such estate or house, which shall have become payable during three calendar months next before election or registration. The qualification of elective members of council was fixed at a legal and equitable seisure of an estate of freehold, for his own use and benefit, in lands and tenements in New South Wales, of the yearly value of £100 sterling, or of the value of £2,000 sterling, above all charges and incumbrances affecting the same. Under this act, the legislature then in operation was authorized to make all necessary provisions for dividing the colony into convenient electoral districts, for issuing, executing, and returning the Geo IV, c. 96, continued by 9 Geo IV., necessary writs for such elections, for deterc 83, s 26, the governor was authorized to mining the validity of disputed returns, and other such matters: but it was provided, that the district of Port Phillip should be or West India spirits, and 15s. on all other formed by a straight line drawn from Cape Howe to the nearest source of the river Murray, and thence along the course of that river to the eastern boundary of the province of South Australia. This district of Port Phillip was to return at least five members; the town of Melbourne, in Port Phillip, one; and Sydney, New South Wales, two The Legislative Council, when members constituted, had power given them to increase the number of the members of their thirty-six members was created, of whom body, and to alter the districts and electoral one-third was nominated by the crown, and divisions, provided the proportion of one-third two-thirds elected by the colonists, on whom members of the council, to be nominated an elective franchise was conferred, namely, by her Majesty, be preserved. Not more an estate of freehold in possession in lands than half the number of non-elective members of the Legislative Council, appointed by vided the governor should have first recomthe crown, were to hold any office of emolu-mended to the council to make provision for ment under the crown in New South Wales. such public service, towards which such The non-elective members to hold their seats money is appropriated, and subject to the for five years from the date of appointment, fixed annual payment of the sums mentioned or until the council be dissolved. Non- in the following schedule .attendance for two successive sessions, bankruptcy, insolvency, being a public defaulter, conviction of treason or felony, becoming a subject or citizen of any foreign power or powers, or being non compos mentis (of unsound mind), would be causes for declaring a seat in the Legislative Council vacant. The governor and Legislative Council were, by this act, authorized to make laws for the peace, welfare, and good government of the colony, provided such enactments were not repugnant to the laws of England, and did not interfere in any manner with the sale or other appropriation of the lands belonging to the crown in the said colony, or with the revenues thence arising. The governor might propose laws to the council, or amend the bills passed by the council, when presented to him for her Majesty's assent; and the council might, in like manner, return any bill in which the governor shall have made any amendments, with a message, signifying those of the amendments to which they agreed, and those to which they disagreed, and thereupon the bill was to be taken and presented for her Majesty's assent, with the amendments so agreed to. The governor might, in her Majesty's name, give an assent to bills passed by the council, or he might withhold it, reserving such bill for the signification of her Majesty's pleasure thereon; and all bills affecting the salaries of the governor, superintendent of Port Phillip, or the judges, or bills altering or affecting the duties of customs upon any goods, wares, or merchandise, or altering the constitution of the Legislative Council, shall, in any case, be so reserved, except temporary bills, which may be assented to by the governor, by reason of some public and pressing emergency. All bills assented to by the governor, to be transmitted to one of her Majesty's secretaries of state; and the queen may, by her Majesty's order in council, within any time during two years after the receipt of the said bill, declare her disallowance of it. The taxes, duties, rates, and imposts levied in the colony, were declared to be appropriated to the public service within the colony, by ordinances to be enacted by the governor, with the advice and consent of the Legislative Council, pro-

Governor	£5,000
Superintendent at Port Phillip	1,500
Chief Justice	2,000
Three Puisne Judges	4.500
Salaries of the Attorney and Solicitor-Gene-	
rel Crown Solvetore and contingent and	20.000
miscellaneous expenses of administration	20,000
of justice throughout the colony	
Colonial Secretary and his department	7,000
Colonial Treasurer and his department	5,000
Auditor-General and his department	3,000
Salary of Clerk, and miscellaneous expenses	,
of Executive Council	600
Pensions	3,000
Public Worship	30,000
	,

These sums might be varied, or altered, and any saving accruing thereby, might be appropriated to such purposes connected with the administration of the government of the colony as to his Majesty might seem fit

By clause XLI of this act, provision was made for the local government of different parts of the colony, by empowering the governor to issue letters patent under the great seal of the colony of New South Wales, to incorporate the inhabitants of every county within the colony, or of such parts of counties or other divisions as to him shall seem fit, to form districts for the purposes of this act, to constitute in each district of not less than 7,000 souls, an elective council of not more than nine members; if the district have 7,000 to 10,000 souls not more than twelve councillors, and so on in proportion to the number of souls, the maximum being twenty-one councillors to 20,000 souls The district councillors to be persons qualified to be elected as members of the Legislative Council; and the district electors to be persons qualified to vote in the election of menibers of the Legislative Council in the district in which the election is made. trict councillors were not elected by the people, the governor might appoint them. No district councillor to continue in office more than three years, unless re-elected; or to hold any lucrative office under such district council, or to enter into any contract, or have pecuniary dealings with such district council, under certain penalties. The district council to be presided over by a warden, appointed and removable by her Majesty or by the governor; a competent district surveyor to be appointed, and to be removable by

the said surveyor to superintend the con- nine district councils, choosing for the bounstruction of roads, public works, &c. The daries the police divisions rather than those district councils to raise, assess, levy, and of the counties; over each district council a appropriate money in their respective dis- warden was appointed, and district countricts for making roads, streets, bridges, cillors were selected from the most influconstructing or repairing public buildings, ential and respectable persons resident in establishing and supporting schools, de- each district. The following is a return, fraying the expenses of, or connected with, issued from the surveyor-general's office, the administration of justice and police dated July 31, 1844, showing the number within the district; and to direct and control of acres contained in each district, for which other matters which may be specially sub- a district council is provided, and the extent jected to the control of the said district of the land alienated by the crown, in each councils, by any law of the governor and respectively:-Legislative Council of the colony. No fine or penalty to be imposed by the district councils exceeding £10 sterling. No tax to be levied on property belonging to the crown; and copies of all bye-laws to be laid before the governor for his assent, and might be disallowed by him within two calendar months after the receipt of said copies. By clause 47 of this act, 5 & 6 Victoria, it was enacted that one-half of the expense of the police establishment of the colony (exclusive of the convict establishment) should be defrayed out of the general revenue arising from taxes, duties, rates, and imposts levied within the colony, and the other half to be defrayed by assessment upon the several districts of the colony, in such proportion as should be, from time to time, fixed by the governor and Legislative Council. The amount so fixed to be paid by the treasurers of the several district councils according to the warrants of the governor, to whomsoever he may appoint; and if the treasurers had not sufficient money in hand, the district council must levy a fair and equal rate upon all property within the district; and if this be not done, a power of distress and sale might be issued by the governor on the goods of the district treasurer, members of the said district council, or inhabitants of the district.

The foregoing are the leading points in

council, subject to approval of governor; charters for the establishment of twenty-

New South Wales Acres Acres Macquarie 116,672 2,395,321 2,512,000 Raymond Terrace and 331,159 1,620,728 1,951,887 Dungog 331,159 1,620,728 1,951,887 Paterson 168,283 104,960 273,243 Matland 145,318 108,682 254,000 Patrick's Plains 251,784 151,500 403,284 Merton and Muswell- 149,818 542,080 691,898 Scone and Murrurundi 237,885 841,600 1,079,485 Casvilis 237,835 841,600 1,079,485 Casvilis 237,835 841,600 1,079,485 Casvilis 247,898 2,1366 (00) Newcastle 35,868 76,160 112,028 Brisbane Water 57,054 300,800 357,854 Sydney 58,102 82,631 140,733 Sydney 58,102 429,630 521,689 Penrith 129,191 247,898 377,089 Liverpool 64,008 39,900 103,908 Appin and Campbell- 51,361 82,603 133,964 Liverpool 64,008 39,900 103,908 Appin and Campbell- 51,361 82,603 133,964 Camden, Narellan, and Proton 1590,714 955,920 1,546,634 Bathurst and Carcor 715,236 2,719,858 3,435,094 Yass 146,387 965,099 1,111,486 Goulbourn 590,714 955,920 1,546,634 Berrima 90,169 360,676 450,845 Illawarra 137,917 432,640 570,557 Bradwood and Broulee 262,060 1,399,1331 1,661,193 Queanbeyan 403,201 806,402 1,209,603	District		Alien- ated	Unalien- ated	Total
Macquarie	NEW SOUTH WALES:		Acres	Acres	Acres
Raymond Terrace and Dungog 331,159 1,620,728 1,951,887 Paterson	Magaziania		118 870	9 905 991	9 519 000
Paterson 168,283 104,960 273,243 Matland 146,318 106,868 254,000 Patrick's Plains 251,784 151,500 403,284 Merton and Muswell-	Raymond Terrace an	idl	991 150	1 600 700	1 051 007
Paterson 168,283 104,960 273,243 Matland 146,318 106,868 254,000 Patrick's Plains 251,784 151,500 403,284 Merton and Muswell-	Ďungog	5	331,139	1,020,728	1,991,007
Patrick's Plains 251,784 161,500 403,284 Merton and Muswell-brook 149,818 542,080 691,898 Scone and Murrurundi 237,885 841,600 1,079,485 283,051 1,198,000 1,481,051 Mudgee and Wellington 244,787 2,035,135 2,279,922 Wolombi and M'Donald 97,173 76,160 112,028 Brisbane Water 57,054 300,800 357,854 Sydney 58,102 82,631 140,733 Paramatta 87,169 63,936 151,105 Windsor 92,059 429,630 521,689 Penrith 129,191 247,898 377,089 Liverpool 64,008 39,900 103,908 Appin and Campbell-town. 129,386 340,000 469,386 Phartely 80,647 1,279,882 1,360,529 Bathurst and Carcor 715,236 2,719,858 3,485,094 Yass 146,387 965,099 1,111,486 Goulbourn 590,714 935,920 1,646,634 Illawarra 90,169 360,676 450,845 Illawarra 1403,201 806,402 1,209,603	Paterson		168,283	104,960	273,243
Merton and Muswell-brook 149,818 542,080 691,898 Scone and Murrundi 237,885 241,600 1,079,485 283,051 1,198,000 1,481,051 Mudge and Wellington 244,787 2,035,135 2,279,922 70,156 200,000 35,868 76,160 112,028 35,868 76,160 112,028 35,869 357,854 36,000 357,854 36,000 357,854 36,000 3					254,000
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Stone and Murrurundi 237,885 841,600 1,079,485 283,051 1,198,000 1,481,051 Mudgee and Wellington 244,787 2,035,135 2,279,922 Molombi and M*Donald 97,173 958,82 1,056 (00 12,028 12,086 12,086 12,088 12,086 12,088 12,086 12,088 12,086 12,088		l −โ	140 919	542 080	601 808
Casuls 283,051 1,198,000 1,481,051 Mudgee and Wellington 244,787 2,035,135 2,279,922 Wolombi and M*Donald 97,173 958,82* 1,056 00 Newcastle 35,868 76,160 112,028 Brisbane Water 57,054 300,800 357,854 Sydney 58,102 82,631 140,733 Paramatta 87,169 63,936 151,105 Windsor 92,059 429,630 521,689 Penrith 129,191 247,898 377,089 Liverpool 64,008 39,900 103,908 Appin and Campbell-town 129,386 82,603 133,964 Hartley 80,647 1,279,882 1,360,529 Hartley 80,647 1,279,882 1,360,529 Yass 146,387 965,099 1,111,486 Goulbourn 590,714 955,920 1,546,634 Berrima 90,169 360,676 430,845 Illawarra 137,917 432,640 570,557 Bradwoodand Broules		ſ			
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Sydney 58,102 82,631 140,733 Paramatta 87,169 63,936 521,689 Penrith 129,191 247,898 377,089 Liverpool 64,008 39,900 103,908 Appin and Campbell-town 129,386 340,000 469,386 Camden, Narellan, and Picton 129,386 340,000 469,386 Hartley 80,647 1,279,882 1,360,529 Bathurst and Carcor 715,236 2,719,858 3,435,094 748,509 Yass 146,387 965,099 1,111,486 Goulbourn 590,714 955,920 1,546,634 Berrima 90,169 360,676 450,845 Illawarra 137,917 432,640 570,557 Braidwoodand Broulee 262,060 1,399,133 1,661,193 Goulbourn 606,402 1,209,603	Newcastle		35,868	76,160	112,028
Paramatta 87,169 63,936 151,105 Windsor 92,059 429,630 521,689 Penrith 129,191 247,898 377,089 Liverpool 64,008 39,900 103,908 Appin and Campbell-town 51,361 82,603 133,964 Camden, Narellan, and Picton 129,386 340,000 469,386 Hartley 80,647 1,279,882 1,360,529 Bathurst and Carcor 715,236 2,719,858 3,435,094 Yass 146,387 965,099 1,111,486 Goulbourn 590,714 955,920 1,546,634 Berrima 90,169 360,676 450,845 Illawarra 137,917 432,640 570,557 Braidwood and Broulee 262,060 1,399,133 1,661,193 Queanbeyan 403,201 806,402 1,209,603	Brisbane Water .		57,054	300,800	357,854
Windsor 92,059 429,630 521,689 Penrith 129,191 247,898 377,089 Liverpool 64,008 39,900 103,908 Appin and Campbell- town. 51,361 82,603 133,964 Camden, Narellan, and Picton 15,236[2,719,858] 3,40,000 Hartley 80,647 1,279,882 1,360,529 Bathurst and Carcor 715,236[2,719,858] 3,435,094 Yass 146,387 965,099 1,111,486 Goulbourn 590,714 955,920 1,546,634 Berrima 90,169 360,676 450,845 Illawarra 137,917 432,640 570,557 Braidwood and Broulee 262,060 1,399,133 1,661,193 Gueanbeyan 403,201 806,402 1,209,603	Sydney		58,102	82,631	140,733
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Liverpool	Windsor		92,059	429,630	521,689
Appin and Campbell- town. 129,386 340,000 469,386 Picton 1715,236[2,719,858] 3,485,094 Yass 146,387 965,099 1,111,486 Goulbourn 590,714 955,920 1,546,634 Berrima 90,169 360,676 450,845 Illawarra 137,917 432,640 570,557 Braidwood and Broules 262,060 1,399,133 1,661,193 Queanbeyan 403,201 806,402 1,209,603	Penrith		129,191	247,898	
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Picton \$123,030 \$43,000 \$40,000 \$405,050 \$140,000 \$140,050 \$140		1-}	51,361	82,603	133,964
Picton \$123,030 \$43,000 \$40,000 \$405,050 \$140,000 \$140,050 \$140	Camden, Narellan, an	ıdί	100 000	040.000	400 000
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Illawarra 137,917 432,640 570,557 BraidwoodandBroulee 262,060 1,399,133 1,661,193 Queanbeyan 403,201 806,402 1,209,603			590,714	955,920	1,546,634
Braidwood and Broulee 262,060 1,399,133 1,661,193 Queanbeyan 403,201 806,402 1,209,603	Berrima		90,169	360,676	450,845
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PORT PHILLIP:—	PORT PHILLIP:-				
Bourke 156,640 5,027,360 5,184,000			156,640	5,027,360	5,184,000
Grant 59,854 5,412,146 5,472,000	Grant		59,854	5,412,146	5,472,000

In October, 1843, the Legislative Council the act 5 & 6 Vict., c. 76. Under it passed a resolution, that it was highly inexthe Legislative Council was established, pedient, even if possible, to cast any portion and now holds its annual sittings; and of the police expenditure on the country Sydney and Melbourne were created corpo- districts, and that this expenditure ought to rations by charter: they have each a mayor be defrayed, as hitherto, out of the general and court of aldermen, who have exercised revenue. The same course was adopted the beneficially the duties entrusted to them, ensuing year; and the governor found himand contributed to the welfare of the inhab- self unable to carry out the intentions of itants of each city. Soon after the act the act 5 & 6 Vict., by the unwillingness 5 & 6 Vict. came into operation, the then of the colonists to become members of the governor, Sir G. Gipps, proceeded to issue district councils. Mr. Deas Thompson, the experienced secretary to the government of New South Wales, in a useful analysis of the proceedings relative to the district councils, dated 27th March, 1847, says—

modification, they may not be adapted to the peculiar circumstances of the colony; but this can only be done by leaving all legislation on the subject to the local legislature. No doubt, as has been experienced on the colonies, there may be an indiposition on

"It may not be altogether irrelevant now to inquire how far the establishment of municipal institutions in the country districts has been favourably received by the inhabitants. If we may judge by the result of the elections in the different districts, the possession of this privilege is looked upon, at least in a great many of them, with much indifference—an indifference which appears to have annually increased since their first establishment. The following summary, showing the number of members elected, and nominated by the governor in default of election, to fill the annual vacancies of one-third, under the charter, will sufficiently illustrate the truth of this conclusion: viz.—

1844 . . elected, 67 · nominated, 0 = 67. 1845 . . elected, 51 · nominated, 14 = 65. 1846 . . elected, 38 · nominated, 32 = 70.

"Thus, during the three years in question, there were 156 persons elected, and forty-six nominated by the governor It is also undoubted, that of those elected, a considerable proportion did not consist of the persons most eligible for so important a trust, a great disinclination being understood to prevail amongst many highly respectable persons to accept the It appears that (with the solitary exception of the sum of £170, raised by the district council of Grant) in none of the districts was any revenue whatever raised by assessment In several, debts have been incurred in payment of the salaries of the officers appointed by the council, but the refusal of the Legislative Council to grant the additional facilities necessary to enable these bodies to levy the assessments when made, and the strong opinions expressed in debate of the risk which would attend their enforcement, seem to have entirely paralyzed the endeavours of the several district councils to exercise their legitimate powers"

Paramatta was almost the only exception to the total mactivity which characterized the district councils. The Legislative Council would lend no assistance to the executive government in giving effect to this part of the constitution of the colony, and, reasoning from a connected series of facts on the subject, Mr. Thompson thus recapitulates the conclusions at which he arrived:—

"1st. That district councils have, from the causes mentioned, entirely failed to answer the object contemplated in their establishment.

"2nd. That there is at present only one in active operation, and this one is sustained only by contributions from the government, and not by assessment raised under the powers granted to it under the act.

raised under the powers granted to it under the act.
"3rd. That these institutions, in their present form, are not adapted to the state of society in this colony.

"4th. That so far as the Legislative Council or the public at large is concerned, they are not regarded in any favourable light.

"Such are the general conclusions at which I am forced to arrive, from a full consideration of all the circumstances I have detailed. I am by no means prepared to say, however, that, with considerable

modification, they may not be adapted to the peculiar circumstances of the colony; but this can only be done by leaving all legislation on the subject to the local legislature. No doubt, as has been experienced in other colonies, there may be an indisposition on the part of the Supreme Legislature to grant to any other bodies concurrent powers of taxation; but for mere local purposes it is scarcely to be apprehended that this would be refused, especially when it would have the effect of relieving the general treasury from heavy burdens, which it can ill afford to bear."

In the Port Phillip division of the colony district councils were established in the counties or districts of Bourke and Grant. Latrobe, the superintendent of Port Phillip, stated, in September, 1846, that they had then been in existence four years; but it was not in his power "to point out a single instance or particular, in either case, in which the object of these establishments had been attained. There has not (he says) been one road made or repaired under their charter; not one school established, not one public building erected, and not one farthing raised or applied to the support of a district police, or to the administration of justice."

This summary of the principal facts connected with the district councils, will enable the reader to understand better the necessity of a new constitution for New South Wales, and the basis on which it was subsequently proposed to found it. Previous to proceeding chronologically with the legislative history of the colony, it should be remarked, that the Legislative Council of two-thirds elective, and one-third nominated members, as provided by the act 5 & 6 Vict, had worked well, and passed several useful The distribution of the eleccolonial laws. tive franchise was (according to Mr. Braim), in 1844, when the population was 130,856, as follows .-

District	Number of Electors	Number of Members returned
Sydney	2,823	2
Cumberland, County .	1,344	2
Camden	386	1
Northumberland	369	1
Durham	345	1
Melbourne	591	1
	5,858	8
Eleven other Districts	2,619	16
Total	8,477	24

A committee of the Legislative Council in New South Wales recommended that leaseholders of and at a rental of £20 per andirected to a consideration of the govern- stituents and representatives." mental state of the Australian colonies, and to the granting of representative assemblies to these settlements.

On the 31st July, 1847, Earl Grey, her Majesty's secretary of state for the colonies, addressed an able despatch to Sir Charles Fitzroy, governor of New South Wales, in sonings of Sir G. Gipps (the late governor houses of legislation:of New South Wales), and of the majority of the executive council, had submitted to the queen their opinion, that Parliament should be recommended to impart to her Majesty the authority necessary for carrying into effect the separation of the Port Phillip district from the rest of the colony of New South Wales. Earl Grey, in expressing his own conclusion for the separation of Port Philip from New South Wales, remarks, that it rested mainly on the principle, that all affairs of merely local concern should be left to the regulation of the local authorities. and proceeds to state, that if local selfgovernment is necessary for the good of the whole colony, it is not less necessary for the good of the several districts of which it is composed, and his lordship adds-

"For this reason it was that Parliament provided for the erection, throughout New South Wales, of municipal corporations, which should, in various respects, balance and keep in check the powers of the Legislative Council By this method it was supposed that the more remote districts would be able to exercise their fair share of power, and to enjoy their proper influence in the general polity of the whole province But the result has disappointed this expectation. The municipalities have only a nominal existence. The Legislative Council has absorbed all the other powers of the colonial state The principle of self-government in the districts the most remote from Sydney is therefore acted upon almost as imperfectly as if the conduct of local affairs had remained under the same management and institutions as those which the existing system superseded.

The secretary of state then announces the intention of her Majesty's government to propose to Parliament some changes in the existing constitution of New South Wales. consequent on the separation of the Port Phillip district. In indicating the general principles on which it was proposed to legislate, Earl Grey stated, that in revising the and authority with which they were invested constitution of New South Wales, her would centre in the governor; that they Majesty's government was still favourable would be virtually deprived of the existing

num, or squatters possessed of 200 cattle or to the creation of local authorities, such 1,000 sheep, should have a vote. During as the district councils, especially with a the last four years, the attention of her view to their "being made to bear to the Majesty's government has been specially House of Assembly the relation of conpatch however, on this point, is vague and inconclusive. Earl Grey, indeed, expressed his desire to be relieved of the responsibility of proposing such a change, by obtaining "the most complete local intelligence, supported by the most eminent local authorities." In one paragraph in this despatch, which his lordship stated, that her Majesty's his lordship expresses a decided feeling in government adopting, in general, the rea- favour of the establishment of two distinct

> "You are aware that, in the older British colonies, the legislature, as in New South Wales, is generally composed partly of nominees of the crown, and partly of the representatives of the people; but there is this important difference between the two systems that in the one case the legislature is divided into two separate houses and chambers; in the other, the representatives of the people and the nominees of the crown form a single body, under the title of the Legislative Council It does not appear to me that the practical working of this last system would by any means justify the conclusion, that it is an improvement upon that which it was formerly the practice to adopt; on the contrary, I see many reasons for belief, that the more ancient system, by which every new law was submitted to the separate consideration of two distinct houses, and required their joint consent for its enactment, was the best calculated to insure judicious and prudent legislation."

Finally, the secretary of state concludes with the following sentiment, worthy of his lordship's high station -"I need scarcely add, that it will be a source of the highest gratification to me, if, under the authority of Parliament, the colonial governments of Australia can be settled on a basis on which the colonists may, under the blessing of Divine Providence, themselves erect institutions worthy of the empire to which they belong, and of the people from whom they are descended."

On the receipt of this despatch, of July 31, 1847, in New South Wales, the governor, Sir Charles Fitzroy, caused it to be printed for general circulation; a storm of opposition was immediately created against the proposition of perpetuating the district councils, and of delegating to them the right of electing representatives to legislate for the colony.

The colonists considered that it would be utterly impossible ever to bring those councils into effective operation; that the power elective franchise; that there were to be two legislative houses-one appointed by the crown, and dependent only on the government-the other subservient only to the district councils, by whom its members would be elected - so that neither house would be independent; and that the making their colony the subject of a theoretical experiment in legislation was a measure of which they could never admit the policy or But there was nothing in the despatch of Earl Grey, expressed or implied, to justify the violent language used at some of the public meetings in the colony; and from no previous colonial minister had the colonists met with a larger concession to liberal principles; the fault-if I may use the term-lay in the indefinite wording of the despatch, and the absence of any determined line of policy on the part of her Majesty's government.

Among the documents emanating from the colonists, on this occasion, was a petition from the magistrates, landholders, and residents in the district of Picton, county Camden (New South Wales), to the governor, Sir Charles Fitzroy, and forwarded by his excellency to Earl Grey, March 27, 1848 (received August 7, 1848), which sets forth the objections to the then proposed alteration in the constitution of New South

Wales:-

"Your petitioners have learned, with much regret and dissatisfaction, that it is the intention of her Majesty's government to alter the present constitution of the colony, and substitute in its stead a form of representation totally at variance with all their ideas of liberty, and utterly repugnant to every British colonist.

"Your petitioners would respectfully point to their own district, in order to show that it will be impossible to carry out such a scheme as is detailed in the despatch of Earl Grey to your excellency. The district contains an area of nearly 600 square miles, and the population only numbers 1,200, according to the last census; while there is but one village in the whole district, containing about 120 persons, and distant only fifty miles from Sydney. By the last electoral list there appears to be sixty-eight voters, but the number would be considerably increased if the franchise was extended to leaseholders.

"Your petitioners would also beg to remark, that not only would it be impossible to establish district councils in any shape, but at present there is even a difficulty in finding properly-qualified persons to act as local magnistrates; and your petitioners believe that there are other districts similarly situated in the

colony.

"Your petitioners would particularly call the attention of your excellency to that part of the despatch where it is admitted that 'the intention of Parliament to create local authorities (district councils) has hitherto been defeated;' but the fact of such a dan-

gerous and inquitous power being given to any government officer, as detailed in clause 49 of the present Constitutional Act, (5 & 6 Vict, v 76), is quite sufficient of itself to account for that part of the act not having been carried out. And your petitioners are convinced, that all future attempts of this nature will, in like manner, be defeated."

The inhabitants of Windsor (New South Wales), in a petition to the Queen, in 1848, in common with all the other addresses to the sovereign, express the following sentiments:—

"We, the undersigned inhabitants of the district of Windsor, in the colony of New South Wales, beg, in approaching your Majesty, to express our ardent and devoted loyalty to your Majesty's person and government, and our fervent desire that it may be permitted to you, by Divine Providence, long to sway the British sceptre with much prosperity and glory."

After deprecating the changes proposed in the constitution of New South Wales, as intimated in the despatch of her Majesty's secretary of state, under date July 31, 1847, and addressed to the governor of the colony, the petitioners thus proceed.—

"As natural born subjects of your Majesty, we consider ourselves entitled to equal rights and privileges with our fellow-subjects in the United Kingdom, and we eainestly deprecate the changes alluded to, as laying the axe to the very root of those rights and privileges, by depriving us of the most valuable of them—the being present, by immediate representation, in the Assembly where are enacted the laws by which we are governed. We are most desfrous to enjoy a constitution as nearly as may be alike to that of the United Kingdom, and we accordingly think it due to the colonists, that no measure of magnitude should be passed at home, affecting the colony, without their previous assent."

After a protracted debate on the subject in the Legislative Council of New South Wales, in April, 1848, the Council recorded no opinion, but their views were adverse to the proposed changes. One of the motions, and the mode in which it was disposed, as also a classification of the voters, explains in some degree the state of parties in the colonial Legislative Council.

Question proposed.—That this committee do agree to the following resolution —"That this Council is disposed to view favourably the proposition of separating the deliberations of the nominees of the crown from those of the representatives of the people."—(Mr Cowper)

Question put —That the word "not" be inserted before disposed, and the words "but that the cession of the territorial revenue, or of the Schedules A, B, and C, to the appropriation of this Council, would be

• The clause refers to the power of distress and sale given to the governor over the goods of the district treasurer, district councillors, or district electors, in the event of the district not paying the amount leviable by the governor for the police-rate in the district. Ayes, 10.

† Major-gen.Commanding

Mr. Cowper (Teller)

an amendment in the present constitution," after the word people.—(Mr. Wentworth.) Committee divided:

Noes, 11. Mr. Murray. † Major-gen.Commanding Mr. Wentworth. Colonial Secretary. * Captain O'Connell. Mr. Allen. * Mr. Bowman. Mr. Foster. Mr. Lord. Attorney-general. * Dr. Bland. Mr. Lowe. † The Collector of Customs † Mr. Berry. * Mr. Danger. Mr. Macarthur. † Mr Darvall. Captain Dumaresq Mr. Robinson (Teller) Mr. Cowper. + Col. Treasurer (Teller) Elected, 4, official, 4; Elected, 9; official, 1; nominees, 3; total, 11. total, 10. Committee divided. Original question put. Ayes, 11. Noes, 10. † Attorney-general. † Colonial Secretary. * Captain O'Connell. * Mr. Bowman. † Colonial Treasurer.

Mr Lowe. * Mr. Wentworth. * Mr Dangar. Mr. Lord Mr. Berry. Mr. Macarthur. Dr. Bland. * Mr. Murray. † Mr. Darvall. Mr. Allen. Mr. Foster. * Captain Dumaresq.

Elected 9; official, 1; Elected, 4; official, 4, nominees, 3; total, 11. total, 10.

† Collector of Customs.

* Mr. Robinson (Teller.)

Note -Those marked thus * are elected; thus †, official, and thus I, nominees

The governor, in a despatch to her Majesty's secretary of state (dated 11th August, 1848, received, 19th January, 1849), conveying the details of the debate in the Legislative Council, thus expresses his own opinions in favour of two legislative chambers.-

"Your lordship will not fail also to observe that the main point of difference which led to the result was the question of the establishment of a Legislative Council distinct from a Representative Assembly, and a perusal of the debates which took place on this question will make your lordship acquainted with the fact, that the opposition that was raised to the constitution of these two legislative bodies was not grounded upon any principle of government, but simply and avowedly upon the assertion that a Legislative Council interposed between the executive government and the Representative Assembly would render the former more independent of the latter, and therefore not so hable to be controlled by the fear of coming into direct collision with it.

Having thus endeavoured to put your lordship in possession of the proceedings of the Council as briefly as was consistent with a clear explanation of them, it only remains for me to add my own opinion, which is, I believe, confirmed by that of the most experienced and unprejudiced persons who have watched the working of the present constitution of this colony, that the assimilation of the constitution of this colony to that of the older British colonies, where distinct legislative bodies exist, would be generally considered to be extremely advantageous to its interests, but that the inroduction of the double scheme of election, by mak-

ing the district councils the constituents of the House of Assembly, would be most unpalatable to the whole community, and would excite throughout the colony a resistance which would in all probability render it inoperative, while it would not fail to create an illfeeling towards her Majesty's government, which would not easily be allayed."

The language used by Sir William Denison, the governor of Van Diemen's Island, in a letter to her Majesty's secretary of state, dated 15th August, 1848, and received in London, 10th March, 1849, 18 very conclusive on the point expressed by the governor of New South Wales, and deserves record; but his expression as to the character of the people, in making wealth their sole consideration, is far too general and unqualified a censure on the colonists of New South Wales; yet, were it not so, they would have some excuse, in the absence of honorary distinctions—of prizes for emulation-and other gratifications, apart from or contrary to those of self-indulgence.

Sir William Denison, although writing under the idea that an act providing for a Representative Assembly in Van Diemen's Island, might already have been passed by the Imperial Parliament, nevertheless deemed it his duty not to withhold any information which might enable the secretary of state "to form a judgment as to the nature of the institution best adapted to secure the per-

manent welfare of these colonies"

His excellency thus proceeds:

"Without, therefore, wishing or presuming to give an opinion on the general question of the best form of legislative body, I may say that, under the peculiar circumstances of these colonies, I should most strenuously recommend the adoption of a second or upper chamber

"When we consider the elements of which society here is composed,—when we see the low estimate that is placed upon everything which can distinguish a man from his fellows, with the sole exception of wealth—when we see that even wealth does not lead to distinction, or open the road to any other ambition than that of excelling in habits of self-indulgenceit can hardly be subject of surprise that so few are found who rise above the general level, or that those few owe more to the possession of a certain oratorical facility than to their powers of mind or the justness of the opinions which they advocate.

"The broad plain of equality, as in America, receives the whole of the community; and though there are many who would gladly avail themselves of any opportunity of raising themselves above the general level, yet here, as in America, any attempt to do so would be frustrated by the jealousy of the re-

mainder of the community.

"Your lordship can hardly form an idea of the character of the population of these colonies

" It is usual to assume that colonies are off-shoots from the parent stock, containing in themselves the germs of all the elements of which society in the mother country is composed.

"This can only be said of any colony with many reservations, but it cannot be said of these colonies

with any appearance of justice or truth.

"There is an essentially democratic spirit which actuates the large mass of the community, and it is with the view to check the development of this spirit, of preventing its coming into operation, that I would suggest the formation of an upper chamber.

"The members of this, call it senate or what you

may, will be raised in some measure above the general level of society—they will be rendered independent of popular blame or approbation—but, being also free from the suspicion of acting under the control of the government, they will conciliate popular feeling between the executive and the legislature

" I do not presume to enter into any detail of the mode in which such an assembly should be constituted, further than to express an opinion that the government should have as little as possible to do in the nomination or selection of the members

"There must, of course, be some ex-officio repre-ntatives of the government in the house. The sentatives of the government in the house. bishops of the church of England and Rome might sit as representatives of the ecclesiastical bodies, but as the object with which I advocate the establishment of a second chamber, is more that of operating morally upon the body of the community, than of facilitating generally the operations of the executive government, I should be loth to recommend the adoption of a plan which might in any way neutralize the beneficial action of such a body upon the mass of the

people
"I also think that, in order to render the members perfectly independent of either the government or the people, they should be appointed or elected for

Trusting that your lordship will not be of opinion that, in offering these suggestions, I have in any way exceeded the limits imposed upon me by my position in this colony "

On the 31st of July, 1848, her Majesty's secretary of state, in a despatch to Sir Charles Fitzrov, the governor of New South Wales (which was written before the receipt of the preceding letters from the governors of New South Wales and Van Diemen's Land, or of the petitions or the resolutions of the Legislative Council of New South Wales), says :-

"I collect from the documents now before me, that the objections most strongly felt throughout the colony to the views propounded in my despatch, relate to the project of making the district councils serve as constituent bodies to the legislature, and, though in a less degree, to the division of the legislature into an assembly and a council, according to the ordinary pattern of the governments of those colonies which derive their free institutions from Great Britain."

It does not appear to me, from the documents laid before Parliament, that the colonists did object generally to two houses of legislature, according to the old established form of colonial government (except in one instance of comparatively trifling moment); their objection lay to two houses — one nominated by the crown or governor, and the almost invariable usage of establishing a

the other by district councils-because the latter would also be under the influence of the governor.

I cannot but imagine that Earl Grey, in his sincere wish "not to impose upon the inhabitants of the colony a form of government not, in their judgment, suited to their wants," did not think it necessary to advise the carrying of his proposal into execution; and considered that the interests of the colonists would be better served, by leaving in their own hands the power of establishing two houses of legislature, whenever they shall have reason to do so His lordship stated, in his despatch of 31st July, 1847, that he concurred in opinion with the governor of New South Wales, that the division of the legislature into council and assembly, founded, as it is, on long practical experience, would be a decided improvement upon the present form of the legislature in New South Wales; and, if the general feeling of the colony had responded to it, his lordship would have had no hesitation in advising her Majesty's government to lay before Parliament the measures necessary to accomplish the change. It being too late in the session of 1848, to introduce a bill for the separation of Port Phillip from New South Wales, and for the granting of Legislative Councils to the other Australian colonies, and for the general regulation of the affairs of the whole of the colonies, the secretary of state appears to have laid the subject before a committee of the lords' committee of the Privy Council, appointed for the consideration of all matters relating to trade and plantations, such committe consisting of several cabinet ministers and privy councillors, accustomed to the discussion of colonial matters.

On the 1st May, 1849, a court was held at Buckingham Palace before the queen, when a report of the lords' committee of the Privy Council for trade and plantations, was read. relative to a bill to be introduced into the Imperial Parliament for the "better government of the Australian colonies."

The following is an abstract of the leading points in the report .- In the ancient possessions of the British crown, which at present form so large a part of the United States of America, and in all the other British colonies, whether acquired by the occupation of vacant territories or by cessions from foreign powers, there prevailed until the commencement of the nineteenth century

local legislature, consisting of three estates that is, of a governor appointed by the sovereign, of a council nominated by the sovereign, and of an assembly checked by the people. During the nineteenth century, the crown acquired sixteen colonies, in no one of which has the whole colonial polity of a governor, council, and assembly been introduced; it has however been the practice of parliament to recognize the ancient principle, and to record the purpose of resuming the former constitutional practice so soon as the causes should have ceased to operate, which in each particular case had forbidden the immediate observance of it. The pledge has been redeemed in New South Wales, except so far as relates to the combination which has taken place there, of the council and assembly into one legislative house or chamber, and it has been also redeemed with regard to New Zealand, although peculiar circumstances have required a temporary postponement of the operation in that colony of the act passed by Parliament for establishing in it a representative legislature.

With regard to South Australia, and to Van Diemen's Island, (and also to Western Australia when the settlers shall be able and willing to sustain from their local revenues the expense of their own civil government, which is now provided annually by a grant of the Imperial Parliament,) the committee are of opinion that the time has arrived when parliament may properly be recommended to institute in each of these colonies "a legislature in which the representatives of the people at large should enjoy and exercise their constitutional authority;" and that on the separation of Port Phillip (which the committee suggest should be named Victoria, after her Majesty) a legislature should also be created in which the representatives of the people should exercise their constitutional authority and influence.

As to the nature of the legislatures to be established in the several Australian colonies, the committee say—

- "If we were approaching the present question under circumstances which left to us the unfettered exercise of our own judgment, we should advise that Parliament should be moved to recur to the ancient
- * It is a grave question, and demands serious consideration, whether the crown ought to give up its rights to the disposal of the waste lands in the colonies. Those lands, I think, ought to be viewed as the patrimony of the people of England, and to be rendered available for the maintenance of her labouring poor, who, unable to obtain remunerative employment at home, are desirous of seeking, in another

constitutional usage, by establishing in each a governor, a council, and an assembly. For we think it desirable that the political institutions of the British colomes should thus be brought into the nearest possible analogy to the constitution of the United Kingdom. We also think it wise to adhere as closely as possible to our ancient maxims of government on this subject, and to the precedents in which those maxims have been embodied The experience of centuries has as-certained the value and the practical efficiency of that system of colonial polity to which those maxims and precedents afford their sanction. In the absence of some very clear and urgent reason for breaking up the ancient uniformity of design in the government of the colonial dependencies of the crown, it would seem unwise to depart from that uniformity. And further, the whole body of constitutional law which determines the rights and the duties of the different branches of the ancient colonial governments having, with the lapse of time, been gradually ascertained and firmly established, we must regret any innovation which tends to deprive the Australian colonies of the great advantage of possessing such a code so well defined and so maturely considered.

"But great as is the weight that we attach to these

"But great as is the weight that we attach to these considerations, the circumstances under which we actually approach the question are such as to constrain us, however reluctantly, to adopt the opinion that the proposed Act of Parliament should provide for the establishment in each of the four Australian colonies of a single house of legislature only; one-third of the members of which should be nominated by your Majesty, and the remaining two-thirds elected by the

colonists.

The grounds on which the committee arrived at this conclusion were, that a single chamber already legislated for New South Wales and Port Phillip; that it did not appear advisable to alter it, and that the other Australian colonies ought not to have a different legislative system.

They however recommended that the several provincial legislatures should have the power of "amending their own constitutions by resolving either of these single houses into two houses of legislature, subject to the approval of the crown, that the governorgeneral of Australia should have power to convene a General Assembly of not less than twenty nor more than thirty delegates, to be elected by two or more of the provincial legislatures, and that this General Assembly should have full power over the disposing and proceeds of the crown lands in Australia, the imposition of custom duties, and other general subjects."* The whole colonial revenues to be surrendered to the colonists,

and less densely-peopled portion of the empire, the subsistence and the means of elevation which is denied them by the over-crowded state of population in the United Kingdom. It is one thing to lay so high an upset price on land, as in New South Wales, as to stop its sale either in the colony or in England, it is quite another thing to give up all control, on the part of the crown, over those lands which have

except a civil list to be settled upon the Phillip, for the support of public worship crown, of an amount sufficient to defray the among the different churches of England, expenses of those services which it would be Scotland and Rome, and the Wesleyan inexpedient to have to be provided for by Society; the distribution of which is deemed annual votes of the respective legislatures; to be too strongly in favour of the Church or and a revision of the annual appropriation of England, to be made on the basis of the the sum of £30,000 now voted from the following calculations; and the sum to be revenues of New South Wales and Port increased to £33,560 per annum .-

Voted by Legislative Council, for	In the present undivided colony of New South Wales												
Religious Purposes	Church of England		Church of Rome		Church of Scotland		Wesleyans		Total				
Distribution of £30,000 according)	£	8	d	£	8	d	£	8	d	£	8	d	£
to Census of 1841 (existing ar- rangement)	17,581	2	4	8,510	14	6	3,136	9	11	771	13	3	29,998
Distribution of £30,000 according to Census of 1846. Sums which, according to the Cen-	15,715	0	0	9,333	0	0	3,634	0	0	1,316	0	0	29,998
sus of 1846, will correspond with the sum now enjoyed by the Church of England, according to the Census of 1841	17,581	0	0	10,441	0	0	4,066	0	0	1,472	0	0	33,560

According to the census of 1846, the dis-tribution would be—New South Wales— ditto—Wesleyans, £1,176 and £296. Church of England, £14,812, Victoria—

ditto,

The following is the census of the various £2,769: ditto, ditto—Church of Rome, religious denominations in 1841 and 1846, upon £8,757 and £1,684: ditto, ditto—Church which the above calculations are founded —

	Church of	f England	Church	of Rome	Church of	Scotland	Wesleyans.	
Years.	Sydney	P Phillip	Sydney	P Phillip	Sydney	P Phillip	Sydney	P Phillip
	District	District	District	District	District	District	District	District
Population, 1841 Population, 1846	67,537	6,190	33,249	2,441	11,009	2,144	2,586	650
	79,810	14,923	47,187	9,075	16,053	5,856	6,338	1,597

queen in Council, the secretary of state the eastern boundary of the colony of South proceeded to act on it, and on the 11th of Australia. February, 1850, a bill for the better governproposed by her Majesty's ministers, was brought into parliament; and the 19th of February following, this bill was read a second time. The following is an abstract of its leading provisions:-

1. The district of Port Phillip to be separated from the Sydney or Middle district, commonly called New South Wales; and, after separation, to be named Victoria, and to constitute a separate colony; and its boundaries on the north and north-east to be a straight line drawn from Cape Howe to the nearest source of the river Murray,

been acquired, in past years, by the valour, skill, and patriotic spirit of Englishmen If the crown, its ministers, and the legislature of the United Kingdom declare they are unable to frame a system of representative colonial government, and to deal effectively

The report having been approved by the and thence, by the course of that river, to

- 2. That New South Wales and Port Phillip ment of her Majesty's Australian colonies, shall each possess a Legislative Council, the number of members in the said councils to be liable to variation, and to be determined by the respective governors in council; and one-third of the whole number of each council to be appointed by the crown or its representative, the governor of the colony, and the remaining two-thirds to be elected by the inhabitants of the colonies, according to the electoral districts and franchises which may be established by the governors in council.
 - 3. Legislative councils to be established in South Australia and in Van Diemen's

with the proceeds of the sale of crown lands for the promotion of emigration, then there is no alternative but to permit the colonists to construct their own constatution, and to hand over to them the vast and valuable domains of the crown in their respective territories.

Island, not exceeding in number twenty-four each, of whom one-third shall be appointed by the crown. The electoral districts, the franchise, the representive qualification, and the laws for the regulation of the said councils, to be determined by the colonial councils or legislatures, when created.

4. A similar legislative council may be established in Western Australia, as soon as its colonists defray such part of the expenses of the civil establishments as is now defrayed

by parliamentary grant.

5. The governors and Legislative Councils of New South Wales, Port Phillip, South Australia, Van Diemen's Island, and Western Australia have hereby authority to make laws for the peace, welfare, and good government of the said colonies respectively; and, subject to the provisions of the following civil lists, may appropriate to the public service the whole of her Majesty's revenue within such colonies, arising from taxes, duties, rates, and imposts levied on her Majesty's subjects in said colonies: provided that such law be not repugnant to the law of England, or interfere in any manner with the sale or other appropriation of the lands belonging to the crown within any of the said colonies, or with the revenues thence The governor must first authorise the specific appropriation of any sum of money, before it can be passed by the Legislative Council; and the money cannot be lawfully issuable except in pursuance of warrants under the hand of the governor of the said colony, directed to the public treasurer thereof.

The schedules, or civil lists, referred to in the foregoing are—

NEW SOUTH WALES
Governor £5,000
Chief Justice
Two Puisne Judges 3,000
Salaries of the Attorney and Solicitor-Gene-
ral, Crown Solicitor, and contingent and miscellaneous expenses of the administration of justice throughout the colony.
Colonial Secretary, and his department 6,500
Colonial Treasurer, and his department 4,000
Auditor-General, and his department . 3,000
Salary of Clerk, and miscellaneous expenses
of Executive Council
Pensions
Public Worship
Victoria.
Governor
Judge . 1,500 Salaries of the Attorney-General and Crown Solicitor, and contingent and miscellaneous expenses of the administration of justice throughout the colony

Colonial Secretary, and his department £2,000
Colonial Treasurer, and his department 1,500
Auditor-General, and his department 1,100
Solows of Clork of Evenutive Council and
miscellaneous expenses
VAN DIEMEN'S LAND.
Governor
Governor
Puisne Judge 1,200
Salaries of Attorney and Solicitor-Gene-
ral Crown Solicitor, and contingent and
ral, Crown Solicitor, and contingent and miscellaneous expenses of the administra-
tion of justice throughout the colony .
Colonial Secretary, and his department 2,800
Colonial Treasurer, and his department 1,800
Auditor-General, and his department 1,600
Salary of Clerk of Executive Council, and 700
miscellaneous expenses
Pensions
Public Worship
South Australia.
Governor
Judge 1,000
Salaries of the Advocate-General and Crown
Solicitor and contingent and miscellane-
ous expenses of the administration of jus-
tice throughout the colony
Colonial Secretary, and his department 2.000
Auditor-General, and his department 1,000
Salary of Clerk of Executive Council, and 500
miscellaneous expenses
Pensions
701

The schedule, or civil list, for Western Australia to be not less in amount than the sum which may have been last authorized by Parliament to defray the charge of the civil establishment, in the year previous to the assembling of a Legislative Council.

6. The governors and Legislative Councils of the several colonies may alter all or any of the sums mentioned in the foregoing schedules, and the appropriation of such sums to the services and purposes therein stated; but such alteration cannot take effect without the signification of her Majesty's pleasure thereon, and any saving which may accrue from such alteration shall be applied to such purposes connected with the administration of the colony, as to her Majesty shall seem fit.

7. The district councils and the district police rate to be established by Act 5 & 6 Vict., c. 76, s. 41, in New South Wales, are avoided, and any letters patent issued under that Act, are revoked; but the governor may, upon petition made to him, grant charters under the great seal of the colony, and the same may take place in the other colonies in Australia.

8. The authority of the crown to disallow certain laws and ordinances is preserved.

9. The governor and Legislative Councils general assembly; and may impose, levy, and the importation of any article at a higher rate than that levied upon the produce or manufacture of another country; i.e., the colonies must have no discriminating duties.

10. The colonial legislatures to have full power to make further provisions for the administration of justice; to define the constitution of their courts of law and equity:

Victoria.

10. The existing boundaries of New South Wales and of Victoria may be altered by an order of the Queen in council; six months' notice to be given to either colony which shall not have petitioned for such alteration; and her Majesty may, on the petition of the inhabitants of the territories lying north of the thirtieth degree of latitude, erect the said territories into a separate colony.

11. The Legislative Councils of two or more of the above-named colonies may, by addresses to the governor-general of Australia, require the convocation of a general assembly, to consist of the governor-general and a house of delegates, to be elected by each Legislative Council, in the proportion of two for each colony, and one additional member for every 15,000 inhabitants in each colony; and this general assembly may make and vary its own constitution, subject to the confirmation of her Majesty in council. This general assembly to sit for three years, and then to be dissolved or prorogued by the governor-general.

According to the most recent censuses, the general assembly would be thus formed:

Colony	Population	Delegates
New South Wales	155,000	12
Victoria	33,000	4
South Australia	31,000	4
Van Diemen's Island .	46,000	5
West Australia (about).	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	8
Total		28

12. The general assembly of delegates may alter the acts 6 Vict., c. 36, and 9 and 10 Vict., c. 104, for regulating the sale of waste lands belonging to the crown in the Australian colonies, and may make laws for selling, demising, granting licences for occupation of, or otherwise disposing of the waste lands of

may impose and levy import custom duties, alter, or repeal duties of customs on the imsubject to the provisions of this act, and pro- portation of goods into or from all the colovided that no new duty be imposed upon nies represented in the general assembly. subjecting to appropriation to the public service of such colonies respectively by the separate legislatures thereof, such portions of the aggregate revenue as to such general assemblies may seem meet. The general assembly of delegates may also create and define the powers of a general supreme court. of original jurisdiction or of appeal from and to regulate the jury law; a supreme the several courts of the respective colonies, court to be created in the new province of post-office regulations; weights and measures; roads, canals, or railways traversing two or more of such colonies; the erection and maintenance of lighthouses and beacons: the imposition of shipping dues at any port or harbour within the said colonies; for the enactment of laws affecting the colonies represented on subjects which the respective Legislative Councils shall desire legislation; for the appropriation of such sums as may be necessary to the purposes designed by such legislation, and for the raising of such sums by an equal per centage on the revenues of all such colonies. But no duties to be levied upon articles imported for the supply of her Majesty's land or sea forces; and no duties, charges, prohibitions, exemptions, or privileges to be enacted contrary to or at variance with any treaty concluded by her Majesty with any foreign power.

13. The power of general assembly, if disputed, to be determined by her Majesty

in council.

14. The governors and Legislative Councils, with the assent of her Majesty in council, may alter the Constitution of the Legislative Councils of their respective colonies, instead of a Legislative Council, as before provided, with one-third nominees of the crown, and two-thirds elected, they may establish a council, and a house of representatives, or other separate legislative houses, and vest in them the powers and functions of the Legislative Councils for which they may be sub-But any bill passed for such purpose must be reserved for the signification of her Majesty's pleasure thereon, and be laid before both houses of parliament for at least thirty days before her Majesty's pleasure be signified.

15. The crown may nominate any of the governors of the Australian colonies governor-

general of Australia.

There can scareely be a doubt, that both the crown in the colonies represented in such the report of the committee of the Privy

introduced into parliament on the 11th Febgovernment, in framing them, have sincerely desired to secure to the Australian subjects of the crown the fullest amount of political of praise to the ministers who propose to secure to Englishmen, in every British dominion, the inestimable blessing of free institutions; and to extend impartially to those who occupy even the most distant outposts of the empire, the privileges which their ancestors have gradually obtained, after centuries of sacrifice and struggle-it may be still fairly debated, whether the proposed new constitution for the Australian colonists, or the proposed plan of enabling them to make or amend their own form of government, is the course most likely to conduce to their ultimate well-being; and further, whether such course be compatible with their position as subjects of the British crown. The question happily invites discussion, and that of a nature most likely to elicit truth, and prompt to judicious and efficient measures, instead of forming the grounds of a mere party or parliamentary contest. There can be no difference of opinion as to the necessity of granting, as soon as may be, local selfgovernment to the Anglo-Saxon race in Australia, to the furthest extent compatible with their relation to the sovereign of this realm. For the well-being of the Australians themselves, it is evidently very important, that whatever form of government be now granted, it should, at least for some years to come, be definitely settled by the Imperial Legislature, and not left to be a standing bone of contention among conflicting interests, by which the industrial proceedings of the colonists would be disturbed,-their feelings, if not indeed engaged in violent internecine democratic strife, at least kept in a state of feverish excitement, their attention being perpetually directed to the framing of constitutions which may not be agreed on for years to come, instead of their whole energies being engaged in the farther development and improvement of the resources of the fine country which already bears such indisputable proofs of their persevering and well-directed industry.

So far as the opinion of the colonists of New South Wales can be gathered from their petitions and recorded opinions, they object to the abrogation of their present in the British parliament.

Council, and the bill founded thereon, and electoral franchise, by the transfer of their votes to electoral colleges or district councils. ruary, 1850, have been dictated by the most by which the elective power would be lodged hberal principles, and that her Majesty's in the hands of small irresponsible bodies, who practically would, in many instances, be nominated by the governor; and, even if that were not the case, would be probably But granting the highest meed directed by other influences than those of their constituents. But I cannot find throughout the official documents any conclusive expression against the establishment of two houses of legislature, such as now exist in Canada, Nova Scotia, New Brunswick, Prince Edward Island, Newfoundland, Jamaica, and other possessions of the crown; and which, even in Canada, have worked well for the past ten years. My own opinions on this point have long been recorded; while advocating the fullest grant of political liberty to our colonies consistent with their relation to the parent and governing state, I have always contended, that the link of political connection should not depend merely on a governor representing the crown. In my work on the Colonial Policy of the British Empire, published in 1837, the opinions I then and still entertain, are expressed as follows .-

Centuries of experience have demonstrated the beneficial practical working of the British constitution in its three constituent, independent, and yet harmonizing branches of king, lords, and commons, and as far as it is possible, and at suitable periods, I would wish to see the colonies enjoying similar constitutions; the governor representing the crown, the legislative council the lords, and the house of assembly the commons It must be gratifying to all friends of rational freedom to reflect, that England has ever been foremost in bestowing on her distant settlements the advantages of her own political institutes, thus evincing a true sense of justice, whereas, as Montesquieu rightly observes, a republic governs its con-quered provinces with more absolute and intolerable sway than a monarchy, and its remote possessions suffer all the evils without enjoying any of the advantages of monarchical government. With certain limitations elsewhere explained, the colonies enjoy all the advantages of the British constitution, so far as is compatible with their situation as distant provinces of an empire The limitation of exception is, that the Legislative Council is nominated by the crown for life, or during the official tenure of those civil servants who are ex officio entitled to a seat in the Legislative Council. A question has, however, been recently raised by a party in Lower Canada, as to the advantage of making the Legislative Council an elective body, instead of being, as at present, nominated by the king through the secretary of state. However desirous I feel for the extension of just principles, I cannot-looking to the slow progress

* This chapter was written in October, 1836, and consequently, before the debates on Lower Canada, relative to an elective Legislative Council, came on of rational freedom, and remembering that moral and mental independence of character are essentially necessary to the due exercise of the elective franchise -I cannot desire, either in the mother country or in

her colonies, two elective chambers.

It may be said that the upper house (Legislative Council,) would be chosen by a higher class of electors than those who return members to the lower house, and that, therefore, the popular voice would be more calmly exercised, and property would have its due weight in the making of laws for the country,* but it is impossible to deny that even the higher classes in England (and how much more so in the colonies) are, to a certain extent, hable to great excitement, that their will is not always under the control of their reason, and that in times of political effervescence they would be almost as subject to the influence of their stormy passions as their poorer, though equally honest brethren Those who have not mixed in colonial society can have but a faint idea of the extent to which party feeling on political subjects arrives, the animosities thus produced are of the bitterest nature-poisoning the very core of society, and destroying even the peace of families Now, looking at domestic tranquillity, security of person, lightness of taxation, and freedom from oppressive laws, as the great and desirable advantages of political institutes, it would be insanity or criminality to throw a firebrand into the small community of a colony, with a pretence of gaining some utopian object.

Independently, however, of social considerations, we have no instance on record of any state long maintaining its political freedom either under a single chamber of representatives, or under two elective chambers, the one holding no control or check over the other, and both at the mercy of fluctuating popular favouritism, jealousy, and caprice. Since the abolition of the hereditary chamber of peers in France, but few traces of liberty have remained to the people, and the restoration of an hereditary peerage is now seriously entreated. The very antagonistic forces which an hereditary and an elective chamber exercise, are essential to the preservation of the powers Gibbon, in reference to the Roman republic, correctly observes-" as both the consuls and the tribunes in their public and private interests were averse to each other, their mutual conflicts contributed for the most part to strengthen rather than to destroy the balance of the constitution; but when the consular and tribunitian powers were united—when they were vested for life in a single person when the general of the army was at the same time the minister of the senate, and the representative of the Roman people, it was impossible to resist the exercise, nor was it easy to define the limits, of his

imperial prerogative."+

The United States may be cited, perhaps, as an example in favour of the adoption of two elective chambers, but it should be remembered, that a few centuries of such government must be experienced, ere we pronounce authoritatively on a subject which

*Mr. Labouchere, a gentleman whom I much respect, stated, in the Canada debate in the House of Commons on the 8th March, 1837, that the old American colonies of England had elective legislative councils, but it will be found that it was the char tered and not the crown colonies which had suc assemblies. Adam Smith says, that in three of the governments of the New England colonies, the legis lative councils were chosen by the representatives o

inspires with well-founded alarm, the most honest and able statesmen, who clearly see with Gibbon, hat in elective monarchies the vacancy of the throne s a moment big with danger and mischief We must wait and witness the effects of civilization, of a dense population, of adverse interests, we must watch the onduct of men who, like Marius and Cæsar, commenced by declaring themselves the protectors of the people, and ended by subverting the liberties of their Moreover, we should remember that the Juited States are a republic, and I do not think England is disposed to change her hereditary, contitutional monarch for an annual or quinquennial president.

Let us hear, however, the language of the most nlightened men of the United States on this imortant subject. Judge Story, himself a republican, n his commentaries on the constitution of the United States of America, in treating of the senate thus exresses his views on this topic . "Another and most mportant advantage arising from this ingredient is, he great difference which it creates in the elements of the two branches of the legislature, which constiutes a great desideratum in every practical division of legislative power In fact, this division (as has been already intimated,) is of little or no intrinsic value, unless it is so organised, that each can operate as a real check upon undue and rash legislation each branch is substantially framed upon the same plan, the advantages of the division are shadowy and maginative the visions and speculations of the brain, and not the waking thoughts of statesmen or patriots It may be safely asserted, that for all the purposes of iberty, and security of stable laws, and of solid insti-utions, of personal rights, and of the protection of property, a single branch is quite as good as two, if heir composition is the same, and their spirit and impulses the same Each will act as the other does, and each will be led by some common influence of ambition, or intrigue, or passion, to the same disregard of public interests and the same indifference to and prostration of private rights. It will only be a duplication of the evils of oppression and rashness, with a duplication of obstruction to effective redress In this view the organization of the senate becomes of mestimable value.' Again he says, 'The improbability of sinister combination will always be in proportion to the dissimilarity of the genius of the two bodies; and therefore every circumstance consistent with harmony in all proper measures, which points out a distinct organization of the component materials of each, is desirable "

Another eminent writer on the constitution of the United States, the late chancellor Kent, in treating of the necessity of the powers of government being placed in separate hands, say. The division of the legislature into two separate and independent branches is founded on such obvious principles of good policy, and is so strongly recommended by the unequivocal language of experience, that it has obtained the general approbation of the people of this country. One great object of this separation of the

the people, in Connecticut and Rhode Island, the governor was elected by the colonists, and in some the revenue officers who collected the taxes were assessed by the people. Pennsylvania, which was a proprietary government, was a scene of never-ending contentions, and the colonists even petitioned the king to take its affairs under the management of the crown

+ Decline and Fall vol i. p. 105.

legislatures into two houses acting separately, and with co-ordinate powers, is to destroy the evil effects of sudden and strong excitement and of precipitate measures, springing from passion, caprice, prejudice, personal influence, and party intrigue, and which have been found by sad experience, to exercise a potent and dangerous sway in single assemblies. A hasty decision is not so likely to arrive at the solemnities of a law when it is to be arrested in its course and made to undergo the deliberation, and probably the jealous and critical revision, of another and a rival body of men, sitting in a different place, and under better advantages, to avoid the prepossessions and correct the errors of the other branch. legislatures of Pennsylvania and Georgia consisted originally of a single house. The instability and passion which marked their proceedings were very visible at the time, and the subject of much public animadversion . and in the subsequent reform of their constitutions, the people were so sensible of this detect, and of the inconvenience they had suffered from it, that in both states a senate was introduced. No portion of the political history of mankind is more full of instructive lessons on this subject, or contains more striking proofs of the faction, instability, and misery of states under the dominion of a single, unchecked assembly, than those of the Italian republics of the middle ages, and which arose in great numbers, and with dazzling but transient splendour, in the interval between the fall of the western and eastern empire of the Romans. They were all alike ill-constituted, with a single unbalanced assembly. They were all alike miserable, and all ended in similar disgrace Many speculative writers and theoretical politicians about the time of the commencement of the French revolution, were struck with the simplicity of a legislature with a single assembly, and concluded that more than one house was useless and expensive This led the elder president Adams to write and publish his great work, entitled A Defence of the Constutution of Government of the United States, in which he vindicates with much learning and ability, the value and necessity of the division of the legislature into two branches, and of the distribution of the different powers of the government into distinct departments He reviewed the history and examined the construction of all mixed and free governments, which had ever existed, from the earliest records of time, in order to deduce with more certainty and force this great practical truth, that single assemblies without check or balance, or a government with all authority collected into one centre, according to the notion of M Turgot, were visionary, violent, intriguing, corrupt, and tyrannical dominations of majorities over minorities, and uniformly and rapidly terminating their career in a profligate despotism."

Mr. Jefferson, late President of the United States, in his remarks on the constitution of his native state, Virginia, says, "All the powers of government, legislative, executive, and judiciary, result to the legislative body. The concentrating these in the same hands is precisely the definition of a despotic government. It will be no alleviation, that these powers will be exercised by a plurality of hands, and not by a single one. One hundred and seventy-three despots would surely be as oppressive as one. Let those who doubt it, turn their eyes on the republic of Venice. An elective despotism is not the government

we fought for; but one which should not only be founded on tree principles, but in which the powers of government should be so divided and balanced among several bodies of magistracy, as that no one could transcend their legal limits without being effectually checked and restrained by the others."

With reference, however, to the highly important consideration of having no check on the irregular exercise of popular power, the link that binds the colony to the mother country, so far as government can do so, would be materially, if not entirely injured by the substitution of an elective legislative council for one appointed by the crown through the functionaries of the state.

A governor, without any control over the two houses of legislature in a colony, would be reduced to a political cypher, and the adoption of the elective principle in a governor would soon take the place of his nomination by the king; in fact, the independence of, and separation from the mother country, would virtually occur, whether officially announced or otherwise, the colony thereby deriving all the advantages of the connection, while the parent state would lose everything which made the possession valuable to the empire.

It is not necessary to discuss here the relative advantages of the monarchical or elective principle in government, as before stated, the former has been tested by centuries in England, and found conducive to the greatest portion of happiness that a nation has yet possessed, so long, therefore, as a colony be united with Great Britain, it cannot be the desire or the interest of any practical statesman to alienate or weaken the just prerogatives and rightful power of the crown.

It seems to be totally forgotten by those who go the length of demanding an elective legislative council, that there is a wide difference between an imperial and a provincial government, that the former must of necessity have a control over the latter, so long as they maintain towards each other their relative positions of protecting and protected states. When the latter has ceased to be a colony, it is, of course, free to choose its own government, but so long as it remains in that state it has no right to ask, much less to demand, from the mother country democratic institutions which she herself does not possess, and the granting of which, if she did, would be tatal to all permanence of political or social connection

The power held by the crown of appointing for life the members of the legislative council is, if properly regulated under the management of the proposed colonial board, of great benefit to the colony, t stimulates the wealthy and intelligent colonists to distinguish themselves, in order that they may attain the highest rank in their respective countries, and be deemed worthy the approbation of their sovereign. There is thus an honourable emulation kept up, which is of the most essential advantage in ever community; for, as it is finely expressed by Sir Wilham Blackstone (and the remark is as applicable to a colony as to the parent state), "The distinction of rank and honour is necessary in every well-governed state, in order to reward such as are eminent for their services to the public, in a manner most desirable to individuals, and yet without burden to the community, exciting thereby an ambitious yet laudable ardour, and generous emulation in others And emulation, or virtuous ambition, is a spring of action which, however dangerous or invidious in a mere republic, or under a despotic sway, will certainly be

Franklin's favourite but mistaken idea was a single legislature and a plural executive.

attended with good effects under a free monarchy, the governor and Legislative Council. An where, without destroying its existence, its excesses may be continually restrained by that superior power from which all honour is derived. Such a spirit, when nationally diffused, gives life and vigour to the community, it sets all the wheels of government in motion, which, under a wise regulator, may be directed to any beneficial purpose; and thereby every individual may be made subservient to the public good, while he principally means to promote his own particular views.

The governor and Legislative Council. An Insolvent Debtors' Act is in operation, the benefit of which may be obtained by an insolvent a second or third time, if he pay efficient shillings in the pound. Any public officer taking advantage of the provisions of the Insolvent Act, is, by an order of the secretary of state, dismissed the service.

The execution of the laws devolves upon

"A body of nobility is also more peculiarly necessary in our mixed and compounded constitution, in order to support the rights of both the crown and the people, by forming a barrier to withstand the encroachments of both. It creates and preserves that gradual scale of dignity, which proceeds from the peasant to the prince, rising like a pyramid from a broad foundation, and diminishing to a point as it rises. It is this ascending and contracting proportion that adds stability to any government, for when the departure is sudden from one extreme to the other, we may pronounce that state to be precarious

"The nobility, therefore, are the pillars which are reared from among the people, more immediately to support the throne, and if that falls, they must be also buried under its iuins Accordingly, when in the last century the Commons had determined to extirpate monarchy, they also voted the House of Lords to be useless and dangerous And since titles of nobility are thus expedient in the state, it is also expedient that their owners should form an independent and separate branch of the legislature they were confounded with the mass of the people, and, like them, had only a vote in electing representatives, their privileges would soon be borne down and overwhelmed by the popular torrent, which would effectually level all distinctions. It is, there fore, highly necessary that the body of nobles should have a distinct assembly, distinct deliberations, and distinct powers from the commons "*

The bill for the government of the Austrahan colonies is now (15th March, 1850) before the Imperial Parliament, where it will doubtless receive a fair and full discussion. I have conferred with no member of the legislature thereon; received no private information, and formed my judgment solely from the facts published by parliament, and believing that it is the anxious desire of the queen, of her Majesty's ministers, and of all parties in both the Houses of Lords and Commons, to act with a just and liberal spirit towards the Australian colonies. I can only venture to express an earnest hope, that a measure conducive to the happiness of the colonists, and calculated to maintain their connection with England, may be the result of the deliberations of the Imperial Legislature.

LAWS AND COURTS.—The statute laws of England are in force in the colony, aided by cts of Parliament and local enactments by

 The state of France, in 1850, under a single chamber, is a practical illustration of the dangers attendant on one Legislative Assembly.

Insolvent Debtors' Act is in operation, the benefit of which may be obtained by an insolvent a second or third time, if he pay fifteen shillings in the pound Any public officer taking advantage of the provisions of the Insolvent Act, 18, by an order of the secretary of state, dismissed the service. The execution of the laws devolves upon a supreme court, presided over by a chief and two pursne judges, whose powers are as extensive as those of the courts of King's Bench, Common Pleas, and Exchequer, at The supreme court is a court Westminster of over and terminer, and gaol delivery, it is also a court of equity, with all the power, within its jurisdiction, of the lord high chancellor of England, and it is a court of admiralty for criminal offences, within certain limits, it is empowered to grant letters of administration, and it is an insolvent debtors' court From the supreme court an appeal hes in all actions, when the sum or matter at issue exceeds the value of £500, to the governor or acting governor, who is directed to hold a court of appeals, from which a final appeal lies to the Queen in council The supreme court is provided with an attorney and solicitor-general. There are 36 barristers, and 144 solicitors practising in the court The sheriff exercises, by his deputies, the duties of his office over the whole territory Circuit courts are held in different parts of the colony, they are courts of record, and stand in the same relation to the supreme court as courts of oyer and terminer, and of assize and nist prius, in England, do to the king's superior courts of record at Westminster Courts of general and quarter sessions have the same powers as those of England, and while the colony was a penal settlement, they might also take cognizance, in a summary way, of all crimes not punishable by death, committed by convicts whose sentences had not expired, or had not been remitted.

A vice-admiralty court, presided over by the chief justice of the supreme court, takes cognizance of civil cases only, such as seamen's wages, &c There is an ecclesiastical court for clerical matters; but this court has no jurisdiction in testamentary affairs, the charter of justice having empowered the supreme court to grant letters of administration, and direct the distribution of testators' effects. Courts of requests have been established under authority 9 Geo. IV., c. 83, for summarily determining claims not ex-

or demanding of any duty payable to her Majesty, or to any fee of office, annual rents, or other such matter, where rights in future would be bound, or to a general right or duty, and to award costs.* The decision of the court is final and summary, as in England. One commissioner, appointed by the crown, presides in all the courts of requests throughout the colony.

Imprisonment for debt was abolished by the Insolvent Act passed in 1844, on the power of depriving other creditors of their right to benefit by the labour of their debtor; 2nd. That it drove the debtor, to seek refuge in the insolvent court $\mathbf{B}\mathbf{y}$

of the Sydney newspapers.

In the earlier stages of the colony, crimiby a judge and two sworn assessors. Now juries, selected as in England, sit in all civil and criminal cases. In 1844 a new jury law was passed by the colonial Legislative Council, by which in civil cases there need only be taken as conclusive, and if, after delib- might be drawn, supported by buoys. "Sydney bar is highly respectable in character, and is, certainly, the most numerous, English bar out of England; several of its members earn from £1,000 to £3,000 a-year, or more." Mr. Baker fancied himself "transported to England," on entering the Supreme Court at Sydney, and seeing three judges on the bench, the registrar and other officers at their feet, the attorney-general and solicitor-general in their silk gowns, the crowd of "learned" gentlemen behind them;

 These powers are so laid down by Mr H W. Parker, in Mr. Clark's Summary of Colonial Law.

ceeding £10 sterling, except the matter in all, from the judges downwards, duly wigged question relates to the title of any lands, and robed, and the attorneys, hardly distenements, or hereditaments, or to the taking cernible from amidst the heaps of red and blue bags, and piles of red-tape bundles, in which they delight to bury themselves. Coroners are stationed in different districts. and great attention is rightly paid to this ancient and very important branch of juris-There are benches of unpaid prudence. magistrates at Sydney and in all the principal towns in the colony, aided by civil constables and a mounted police. There are several

stipendiary magistrates.

MILITARY DEFENCE.—New South Wales grounds -lst. That the imprisonment of and the other Australian colonies are perthe debtor gave a vindictive creditor the fectly defenceless against a foreign enemy; a hostile fleet might enter Sydney Cove, plunder the merchant shipping in the harbour, and lay the capital under contribution. however much he might wish to devote his without any effectual resistance being offered. energies to the payment of his obligations, for the few British troops that are in the colony are scattered at different outposts, the assent of a majority of the creditors, a and there is no militia in existence, and yet debtor under this act may make a voluntary at a comparatively small cost, the harbour assignment of his property to the trustees of Port Jackson, which would hold the entire appointed by the creditors, provided such fleet of England, might be rendered perassignment be published three times in one fectly impregnable, and be made one of the strongest positions in the world. entrance of Port Jackson is formed by two nal juries were formed of naval and military lofty headlands, distant about one mile andofficers, and civil causes were determined a-half from each other, and appear like gigantic lock-gates within which the noble haven expands for fifteen miles into numerous coves, where vessels he as sheltered as if they were in the London Docks. On the north and south heads of Port Jackson, be four jurymen; if, after deliberating four batteries mounted with sixty-eight pounders hours, they cannot arrive at a unanimous would effectually command the entrance, judgment, the opinion of three-fourths may across which, in time of war, a chain-boom erating twelve hours, the jury of four can-rectly in front of the entrance is the elevated not agree, a new trial must take place. Mr. George's Head, on which a battery of heavy Baker, a lawyer of the Inner Temple, who guns might also be advantageously placed, visited New South Wales, says that the so that with these three batteries, no hostile ship, even with a leading wind, could enter without being destroyed or disabled. There and perhaps, taken as a whole, the best are several other islets in the harbour where well-constructed fortresses, and a citadel, with a few guns well manned, would tend to the effectual protection of Sydney Cove, and of the city; the few batteries now on either side of the Cove are merely fit for firing salutes. With the sea entrance well defended, it is not likely that any successful attempt could be made for the capture of the city of Sydney, by landing a force on the north-east shores of Botany Bay, as the Australians would be enabled to defend broken country, capable of being made very and a large number are employed at Van harassing to an enemy. visable that the colonists should immediately sent from England, it is unfair, therefore, set about the defence of Port Jackson; ap- to speak of New South Wales being a heavy propriate annually a moderate sum towards charge to the crown for mulitary protection; the construction of batteries at the heads; the colonists are quite able to provide their obtain from England heavy-metalled guns, and boom chains of sufficient length. A small battalion of colonial artillery should Victoria or Port Phillip-Melbourne, the be organised; and, for this purpose, the capital, and the harbour of Geelong, have not queen would probably permit some of the a single gun for their protection; Southern most efficient gunners in the royal artillery to be drafted into the Australian corps is also indispensable to the security of the militia; and no time should be lost by the Australian colonies, that a militia law be passed, providing for the embodiment and training of every man between eighteen and is impossible to say, in the present anomalous forty-five years of age, capable of bearing arms, as is the case in our North American other country, may enjoy the blessings of provinces, and other colonies. Canada, Nova Scotia, New Brunswick, Newfoundland, and even Prince Edward Island, have consequently, repugnant to the first principles each an effective militia; and, in the event of Christianity, while, in a mere economical of hostilities with the United States, or any other country, they could bring immediately into the field, fully armed and equipped, at the slaughter of each other, but my own least a quarter of a million of trained sol- limited experience in the naval and military diery. New South Wales, and the other service of the crown, has taught me to esti-Australian colonies, under their new constitution, will possess full control over their own revenue and expenditure; and they cannot expect the people of England to pay, out of the exchequer of this heavily-taxed country, for their fortifications and military defence. In time of war, England would, without doubt, send her fleets and troops to every part of this wide-spread empire, but her best defence must be the patriotism and bravery of the colonists themselves. During the American war of 1811-12, the French and English Canadian militia successfully the less they are used the better. resisted the American troops of the line, and but for the gallant conduct of that loyal body of British subjects, the regular regiments of our soldiery would have been inadequate to the defence of Canada. Thus must it be with the Australian colonists. The Imperial Parliament is granting them Harbour City, 706; Fort Macquarie, 12, perfectly free institutions; and one of its Goat Island, 13; Cockatoo Island, 58, necessary conditions must be, the providing Paramatta (15 miles from Sydney), 29; adequately for their own defence against aggression. The number of her Majesty's troops (75 miles), 28; Moreton Bay (450 miles), in the several settlements in Australia, in 34; Port Phillip (600 miles), 58; attached Van Diemen's Island, and in New Zealand, to mounted police, 20. The mounted police is stated to be about 2,500; but, of these, consists of 6 officers; 18 serjeants; 13 cornearly a monety are stationed at New Zea- porals; troopers, 74 mounted; 19 disland, in consequence of the recent hostimounted = 130.

their country on a line of fifteen miles of lities between the British and the aborigines; It would be ad- Diemen's Island, in guarding the convicts own internal police, and do not require British soldiers for that purpose As regards and Western Australia, and Van Diemen's It Island, are also without defensive batteries or colonists in placing their territories in a state capable, at least, of some protection; for it state of Europe, how long England, or any peace. For myself, I hate war; it engenders every bad passion in human nature; and is, sense, it dissipates wealth, destroys industry, and converts men into mere machines for mate the value of an effective national defence, as being, under Providence, the best security for peace The nation that would preserve its independence, in the present imperfect state of practical Christianity, must maintain a standing army and a fleet affoat, and this necessity will continue until the day arrive, when "nation shall no longer rise up against nation, neither shall they learn war any more" Then, indeed, may we "turn our swords into pruning-hooks," but, until then, we must keep them in readiness, though

The number of troops of the line in New South Wales and Port Phillip, in December, 1848, was—field-officers, 6; officers, 42, non-commissioned officers and privates, 908 = 1,046. The troops are widely scattered, viz.—at Sydney, and in the forts in Blackheath (66 miles), 48, Newcastle

CHAPTER VI.

REVENUE AND EXPENDITURE OF NEW SOUTH WALES, MONETARY STATE, &c.

For several years, the expenditure required for the maintenance of New South Wales, as a penal settlement, was borne chiefly by the British exchequer. The committee of the House of Commons, which sat in 1837-38, on transportation, referring to the cost of New South Wales and of Van Diemen's Island, as penal settlements, adduce the following statement:—

"It has been impossible for your committee to obtain an accurate statement of the total amount of British funds expended on the two penal colonies since their foundation, as the accounts have hitherto been kept principally with a view to their examination and audit, and not framed so as to afford the statistical information required. The sum really expended on account of the penal colonies, exceeds the subjoined estimate, which, however, may be considered sufficiently to approximate to the true amount, to give the house an idea of what has been the cost of the punishment of transportation—

Cost of the transport	of c	onvi	cts .		£2,729,790
Disbursements for ger	ıeral	, cor	ıvıct,	and	4.091,581
colonial services . Military expenditure	•		: :		. 1.632.302
Ordnesses					. 29.846

Total from 1786 to 31st March, 1837, 8,483,519 Deduct premium on Bills, Coins, &c, 507,195

£7.976.324

"The number of convicts transported to New South Wales and Van Diemen's Land up to the end of the year 1836, were 96,558, their conveyance to those colonies has, therefore, cost about £28 per head on the average, and the various expenses consequent upon their residence and punishment there has been at least £54 a head, in all more than £82 a head, how much more it is impossible for your committee to ascertain

"The expense entailed upon this country by the penal colonies, has been, on the average since their commencement, £156,398 a year, but at present the annual expenditure is more than treble that amount, and is rapidly increasing every year. That expendi ture can now be ascertained with considerable accu racy, as the commissariat accounts have been kept in an improved form since 1832 It should be remarked that the estimates for the penal colonies are not voted in one sum, but are scattered through various portions of the general estimates, for instance, the transport of convicts is defrayed out of the navy estimates, the pay of troops, out of the army estimates, the maintenance, &c, out of the miscellaneous estimates, the various dry stores required, out of the ordnance estimates, and innumerable sundries are paid out of the army extraordinaries.

"The following was the expenditure of this country on account of New South Wales and Van Diemen's Land in the years 1836-37—

NEW SOUTH W	ALE	8 -	-							
Ordinaries of	the	ar	my							£46,801
Commissaria										3,450
Ordnance .										12,014
Navy .										4,641
Extraordinar	1es o	f tl	he	arı	ny					55,625
Special disbu	rsen	ıen	ts f	or	COI	171	cts			127.949
Van Diemen's	LAN	D .	_							
Ordinaries of	the	ar	my							16,354
Commissaria			. "							2,059
Ordnance .										11.625
										515
Extraordinar	1es c	f t	he	ar	mv					20,867
Special disbu							cts	i		113,083
Transport of co										73,030

"In 1836 the number of convicts in the two colonies amounted to above 60,000, and in that year the cost to this country was little more than £6 16s a head, in the same year about 5,475 persons were transported at the expense of about £13 6s a head In these estimates of the expense of the system of transportation, neither the cost of the convict establishment.

Total expenditure . . . £488,013

lishment at Bermuda, nor of the hulks at home, are included "

It is evident, from the foregoing statement, that without reference to the moral part of the question of transportation, it is the cheapest mode of disposing of our criminals. Including all the heavy charges from 1787 to the close of the war in 1815, it appears that about 100,000 convicts have cost less than £8,000,000, or £80 each. Taking the average period of sentence at ten years for each prisoner, this shews a charge of about £8 a year for each convict. and during the year 1836, it was only £6 16s Under the most economical management, a convict costs, in the Milbank Penitentiary, England, all things included, £25 a year, four times what he would cost the state, if a proper system of penal colonization were carried into effect, and the details in this volume prove the great amount of moral reformation which has taken place in New South Wales. The retention, in the United Kingdom, of 5,000 convicts a-year, would soon prove a heavy charge on the home exchequer, and when the period of their imprisonment is fulfilled, what is to become of them? The most humane and Christian policy is the foundation of settlements like that of New South Wales.

REVENUE.—It is unnecessary to enter into details of the early collections of revenue

in the colony. The limited number of free £279; in the last year, £120,427. inhabitants, the few exportable products statement shows a heavy taxation. they possessed for several years, and the disinclination of the home government to Wales (not including Port Phillip) for the press heavily on the colonists, prevented any year 1847-48, are thus shown: endeavour to levy a large income for even their local government. The following statement of the revenue of the colony of New South Wales, from 1824 to 1848, is given in detail in a Parliamentary paper of 27th August, 1839, and subsequently from various (It includes Port Phillip).

Year	General Revenue	From Land	Total
1824	£49,191	£279	£49,471
1825	65,733	5,948	71,681
1826	69,478	2,742	72,220
1827	75,495	2,814	79,309
1828	91,306	5,437	96,743
1829	99,475	3,309	102,784
1830	102,743	1,985	104,729
1831	117,447	3,617	121,065
1832	122,163	13,683	135,847
1833	138,469	26,272	164,741
1834	161,960	43,482	205,442
1835	184,268	89,380	273,648
1836	198,129	132,396	330,526
1837	226,900	127,866	354,766
1838	220,780	125,729	346,509
1839	252,996	172,273	425,269
1840	332,332	354,060	686,392
1841	370,273	117,120	487,393
1842	371,937	63,149	435,086
1843	322,388	47,742	370,130
1844	274,185	44,524	318,709
1845	288,788	69,557	357,345
1846	270,550	76,271	346,821
1847	275,543	122,843	398,386
1848	295,566	105,281	400,847

The general revenue included duties on spirits imported or distilled in the colony; on tobacco imported; five per cent., ad valorem, on goods imported; fees, fines, licences, and other miscellaneous items. The total sum collected during the fourteen years ending 1837, on these branches of taxation. was £1.702.762. Of this, the spirits imported yielded £1,051,624; spirits distilled Tobacco, £133,778; ın colony, £15,364. malt and spirit retail licences, £90,770; five per cent. custom duties, £79,535; fees of public officers, £74,296; proceeds of sales of different things, £48,652; tolls, ferries, and markets, £40,042, post-office collections (from 1828), £29,988; wharfage dues, £27,581; auction duties, £25,410. The other items were under £20,000. The total income derived from land, during the same period, was £460,217; of this, £428,936 were the proceeds of land sold, and £13,150 quit-rents. The amount of

This

The details of fixed revenue of New South

DUTIES — On spirits imported £58,715 £63,851 14,091 70 70 70 70 70 70 70 7	year 1047 40, are thus shown:							
Dot	Items	1847	1848					
Dot	Duties —							
Ditto, distilled in colony	On spirits imported	£58.715	£63 851					
Tobacco, imported								
Ad val on goods imported Tonnage on shipping in support of water police Wharfage								
Tonnage on shipping in support of water police Wharfage	Ad val on goods imported							
Dots of water police 1,339 1,165	Tonnage on shipping in sun-)		1 '					
Wharfage 1,339	port of water police	627	695					
Entrance and clearance of vessels	Wharfage	1 339	1 165					
Light house		1,000	1,100					
Light house	Entrance and clearance of							
Light house		696	807					
Harbour Rest T42		709	890					
Post office collections								
Auction duty								
Auctioneers'								
Auctoneers'		2,002	0,210					
Retail spirits, &c 20,615 2,499 2,440 2,110 2,440 2,110 2,440 2,110 2,440 2,110 2,440 2,110 2,440 2,441 2,648 2,110 2,440 2,441 2,648 2,110 2,441 2,648		433	587					
Night and day billiard tables 2,110 2,440 75 14 264 15 14 16 16 16 16 16 16 16								
Distillers' and rectifiers '	Night and day hilliard tables							
Hawkers' and pedlars' 241 264 3,972	Distillers' and rectifiers'							
Rent of tolls and ferries	Hawkers' and nedlars'							
Assessment on live stock beyond Settled Districts* Fees in public offices	Rent of tolls and former							
1,127 14,095 1,626 1,510 2,505 1,510 2,505 1,510 2,505 1,510 2,505 1,510 2,505 1,510 2,505 1,510 2,505 1,510 2,505 1,510 2,505 1,510 2,505 1,510 2,505 1,510 2,505 1,510 2,505 1,510 2,505 1,510 1,5	Assessment on live stock here		1					
Fines of courts of justice, &c. 1,510 4,921 1,761 1,176 1,	yond Settled Districts* . }	1,127	14,095					
Incidental 2,081 751 4,176 751		9,631	9,730					
Ditto	Fines of courts of justice, &c	1,510	2,505					
Territorial Or Crown Sale of crown lands, and town allotments, &c Section 1,036		4,921	2,681					
Sale of crown lands, and town allotments, &c 3,129 7,036		751	4,176					
A solution A s			i '					
Quit Rents 824 4,277	Sale of crown lands, and town	9 190	7.026					
Redemption of ditto 13,914 147 Licences for depasturing stock within Settled Districts Ditto beyond ditto 23,821 26,490 344 Rent of quarries 5 Collections for church and school estates Cother territorial sources 249 35 26 26 27 27 27 27 27 27	allotments, &c	0,129	1					
Licences for depasturing stock within Settled Districts Ditto beyond ditto 23,821 26,490		824	4,277					
Ditto beyond ditto 23,821 26,490 10 cut timber on crown lands 218 344 345 344 345 345 346		13,914	147					
Ditto beyond ditto 23,821 26,490 To cut timber on crown lands 218 344 Rent of quarries 5 10 Rent of government build- ings and premises 91 140 School estates 249 35 Special receipts and surcharges 1,640 2	Licences for depasturing stock	9 836	1 166					
To cut timber on crown lands Rent of quarries 5 10		· ·						
Rent of quarries 5 10 Rent of government build- 91 140		23,821	26,490					
Rent of government buildings and premises	lo cut timber on crown lands	218						
Ings and premises	Rent of quarries	5	10					
Collections for church and school estates	Rent of government build-	91	140					
School estates	Collections for church and							
Other territorial sources . Special receipts and surcharges 1,640 2		4,682	4,116					
Special receipts and surcharges 1,640 2		940	95					
Total revenue and receipts 264,820 267,449	opeciar receipts and surcharges	1,040						
	Total revenue and receipts	264,820	267,449					

The territorial revenue for 1848, in the colony, including New South Wales and Port Phillip, was £103,284; and the total revenue and receipts for the same year, of the territorial and general taxation and assessments, &c., was £401,850.

* The assessment on stock depastured on crown lands, beyond the settled districts of New South Wales annually was—every horse, 3d; head of horned cattle, $1\frac{1}{2}d$; each sheep, $\frac{1}{2}d$. Pending the issue of licenses, under her Majesty's order in council of 9th March, 1847, £10 for 4,000 sheep and forty head of cattle, and a proportionate increase for larger land sold in the first year of the period, was numbers. (See next page for other sources of revenue.)

The	expenditure	in	detail	of	New	South
Wales a	alone, exclus	ive	of Por	t Pl	hillip,	was

The expenditure in detail Wales alone, exclusive of Po	l of Ne rt Philli	w South p,was
Items	1847	1848
CIVIL :—		
Governor and establishment .	£5,561	£5,645
Executive Council	488	582
Legislative Council	3,327	2,657
Col. Secretary's department .	6,098	6,534
Registrar-General's "	970	1,007
Col. Treasurer's "	3,633	-3,814
Auditor-General's "	2,802	2,999
Customs' Chief Ins of Distilleries,	11,066	10,747
D O.C	1,525 12,194	1,605 14,707
Doot Mastow's	3,212	4,369
Col. Architect's	1,309	1,269
Col. Storekeeper's ,, .	859	1,120
Botanic Garden ,,	528	891
Government Printer's	1,546	2,002
Total	55,123	35,593
JUDICIAL	0 700	0.00*
Supreme Court department . Crown Law Officers' ,,	8,729 3,520	8,995 3,243
7 1 17 4 . 4	444	506
Courts of Qr. Sessions	2,193	2,223
" of Requests "	2,096	2,270
Sheriffs' ,, .	2,788	2,829
Coroners' " .	2,788 1,706	1,997
Total	21,480	22,067
Police*:-	F 500	F 404
Sydney City police	7,769	7,464
,, Water	1,182 21,387	1,432 $21,229$
Beyond the settled Districts .	5,067	8,365
Mounted police	10,942	9,177
Border ,	1,376	
Native ,		227
Total	47,725	47,897
GAOLS — Sydney	£3,180	£3,466
Country districts	4,336	4,246
Total	7,516	7,713
MEDICAL .—		
Health Officer and Med. Board	326	325
Lunatic Asylum	3,044	3,794
Total	3,370	4,119
CLERGY AND CHURCHES -		
Ch. of England established .	14,401	14,114
Ditto building churches, &c Presbyterian established	3,411	3,015
Presbyterian established	2,101	2,127
Ditto building churches	182 800	400
We leyan established	5,536	662 5,780
Roman Catholic established . Ditto building chapels	1,812	3,088
Total	29,244	29,188
* There are 32 police districts in	New Sor	

[•] There are 32 police districts in New South Wales The police are in number 361 The average expense for this protection, to each inhabitant, is under 4s per head

Items	1847	1848
Schools — Protestant Male Orphan	1,471 1,268 4,032 1,921 549	1,489 1,603 3,991 1,736 570
R. Cath { titute Children } Public Schools	1,168	1,264
Denominational School Board National , ,	1,846 —	1,784 137 4
Total	12,258	12,582
MISCELLANEOUS.		
Pensions paid in the colony Public Institutions :	576	593
Support and medical treat- ment of free paupers . }	548	903
In aid of Sydney Dispensary.	627	763
Hospital, Paramatta		37
Windsor	141	174
" Goulbourn	208	198
" Bathurst	139	69
,, Martland	188	234
Colonial Museum	200 300	200 300
Vaccination	75	100
Public buildings and works	31,781	33,755
Witnesses Supreme Court	1.806	2.210
Quarter Sessions	903	1,213
Travelling expenses, judges, &c.	850	802
Advances to Col Agent General	16,085	17,886
"towards new Mil Barracks .	8,250	
" on account Gov New Zealand	153	2,304
"South Australia	_	299
"Van Diemen's Island	_	50
"Madras		36
Revenue and receipts returned.	3,282	3,723
All other disbursements	2,352	2,347
Total	68,473	68,196
Arrears of previous years	349	917
Gross total, Sydney district	244,541	252,638

Licences.—Annual: auctioneers, for all the colony, £15; for a police district, only £2; publicans, general, £30; wine and beer only, £10; billiard table, £10; to keep open after nine o'clock at night, £10; packet heence, for wines, &c., £2; confectioners, for ginger and spruce beer, £1, distilling, £50; rectifying and compounding, £25; hawkers and pedlars, £1; stage carriage, 5s.; carters, 2s. 6d.; porters and boatmen, 5s each.

To cut timber on vacant crown lands, annually, £2, except cedar, which is £4.

The tolls and fermes in the colony are numerous, and the rates levied about the same as in England. The rate of customs duties is stated under Commerce. There is an extensive list of fees, which are exacted in the different public offices in the colony, credit of the public revenue.

Auction duty.—Ten shillings on every hun- have been very large . dred pounds sterling of the purchase-money.

Postage of letters.—Weighing less than half-an-ounce, not exceeding fifteen miles, 4d.; twenty, 5d.; thirty, 6d.; fifty, 7d.; eighty, 8d.; one hundred and twenty, 9d.; one hundred and seventy, 10d.; two hundred and thirty, 11d.; three hundred, 1s, for every hundred miles above three hundred, 1d. By sea, from one part to another of the colony, 4d; colonial newspapers, within the colony, for seven days, transmitted once as a single letter. Ship letters, for receipt or despatch, in addition to inland postage, 3d, 6d, 9d, or 1s, quadruple

Total—ın	1847		1	848
Expenses	£558,89 534,59			83,088 51,246
The commissariat de Paid for Military service in I "Ordnance di	partmen 1848 . tto .	t 110	·	NS W £45,320 10,783
Total militar	y service			£70,71
Convict service				14,65
Not connected with the color Army, pensions, &c Commissariat, pay and per Navy Van Diemen's Island New Zealand North Australia East India Company, adva Excise Irish government, police, 1	nsion .			£8,600 62, 10,22, 32,500 83,770 2,490 14;

Total, not connected with the colony, £138,491 The expenses on account of 4,015 convicts in New South Wales, defrayed from the military chest, was £14,651.

In September, 1849, the governor of New South Wales had remitted to the lords of her Majesty's treasury £180,000, to pay the passage of emigrants from the United Kingdom during the year 1847-8. Of this sum, £100,000 was authorized to be raised in the colony, by the issue of debentures, secured on the territorial revenue of the colony. The debentures were issued in sums of £100 each, bearing interest at the rate of $3\frac{1}{4}d$ per diem, or £4 18s. $10\frac{1}{4}d$ per cent. per annum. They would be received as cash in payment for crown lands, but otherwise be redeemable at par within three years, at the option of the government, or within five years, at the option of the holder of a debenture.

The sums paid from the colonial treasury civil and ecclesiastical, and carried to the of New South Wales on account of immigration and quarantine, from 1832 to 1847,

	1832-47	154	Total
Immigrants brought into }	£974,970	£10,026	£1,079,996
Passages of clergymen, missionaries, and others	11,760		11,760
Superintendence, mainte nance, lodging, &c , after arrival in colony	35,746	4,140	39,892
Quarantine	23,068	793	23,861
Total	1,045,544	109,965	1,155,510

This statement does not include the sum of £25,684, paid as interest on land and immigration debentures, issued to the extent of £149,700, of which the whole has been paid off.

BANKING - Monetary system. - Previous to 1817, the circulating medium of the colony consisted principally of the private notes of merchants, traders, shopkeepers, and publicans, the amount being sometimes so low as sixpence. To remedy the evils attendant on such a state of things, the bank of New South Wales was, in 1817, incorporated by a charter under the seal of the colony, with a capital stock of £20,000 sterling, raised in shares of £100 each. The amount of shares subscribed was £12,600, and notes were issued by the bank for 2s 6d, 5s, 10s, £1, and £5. In the first year of its incorporation, the bills discounted by the bank amounted to only £12,193, in 1818 they rose to £81,672; in 1819 to £107,256; demonstrating the necessity that had existed for such an establishment, and the advantage and convenience that was found to result from it. Interest was not uncommon at the rate of ten per cent per annum. The dividends declared in 1818 were at the rate of twelve per cent; for 1819, twenty-one per cent; for 1820 and 1821, twelve per cent.; and for 1822, fifteen per cent. The charter was granted for seven years, which was of course renewed. Each shareholder was responsible for the whole of the proceedings of the bank, thus giving greater stability to the institution, and securing a more careful management of its transactions. The bank seldom advances money upon real securities of any description, nor does it grant cash credits, or allow any interest upon current accounts, or permanent lodgments of cash. The capital of the bank of New South Wales was originally about £150,000, di-

vided into 1,500 shares of £100 each, New South Wales was established, and largely establishment has never sustained any actual losses through the non-payment of the paper which it has discounted. Whether it has since sustained any losses, I am unable to say. Up to the year 1824, the bank discounted at the rate of eight per cent., after which the rate of discount was increased to ten per cent. The colonial customs, duties, sales, and leases of land, and other sources of revenue, having considerably exceeded the amount of its disbursements, it has frequently withdrawn from circulation nearly all the specie in the colony. In consequence of this, and the remittances occasionally made of specie to Canton and other places, with which a trade solvent, has more than once been under the necessity of suspending the payment of specie on demand. It is a fact, highly creditable to the bank and to the colonists in bank, while the whole capital did not, at to twenty per cent. The rehance of the colonists on the stability and integrity of the bank issues notes from £1 to £20 and up-men's Island. The capital at present paid up is wards. about £125,000.

at Sydney, termed the Bank of Australia, favourably viewed, that the whole of its with a capital of £220,000. The Bank of shares were taken as soon as issued, without

and the amount of capital paid up about supported by the emancipists; and the Bank £35,000. The affairs of the institution of Australia by those colonists who arrived are managed by a president and eleven free in the country, and who acquired the directors, elected by the shareholders. Every title of exclusionists. For some years this £50 paid up gives a vote. In examining new institution was highly prosperous, and the proceedings of the bank in 1836, I it seemed to be a powerful rival to the other noticed a remarkable fact, namely—that the establishment. The yearly dividend varied from twelve to fifteen and twenty per cent.; but, in the disastrous period of 1842-3, the Bank of Australia became deeply involved. and largely indebted to the metropolitan Bank of Australasia: it has, consequently, become necessary, together with the Sydney

Bank, to wind up affairs.

In May, 1835, a London company was government pays and receives in specie only; incorporated by royal charter, and called the and in consequence of its receipts, from the Bank of Australasia, with a large capital, for the purpose of establishing banks of issue and deposit in New South Wales, Van Diemen's Land, and other settlements in Australasia. One-half of the company's then capital (£200,000) was required to be paid up before the commencement of business, and the entire capital within two years. The stock was divided into 5,000 shares is carried on by the colonists, the bank of of £40 each (500 of which were reserved New South Wales, though far more than for allotment in the colonies), to be paid up as follows.—£10 per share at the time of subscribing; £7 at three months from that date; £6 at six months; £3 at nine months; £4 at twelve months; £5 at fifteen months; general, that when, owing to the severe and £5 at eighteen months The managedrought during the panic which occurred in ment of the company's affairs is vested in 1826, and which continued for three years the London board of directors, appointed by with little intermission, there were bills to the proprietors; and the banks in the colothe amount of £18,000 over-due to the mes are conducted by local directors, and other persons duly qualified, appointed by that time, exceed £22,000. The confidence the London directors. The paid up capital of the public was so great, that, by prudent of this bank is now £900,000. Its manager management, not a sixpence of the over-due in New South Wales unfortunately allowed bills was lost, and the bank continued to the Bank of Australia to become largely pay a dividend all the time of from fifteen indebted to its Sydney branch, and, for some time, no dividend has been declared. The verdict of the courts of law in England establishment was so entire, that instead of has established the validity of its claims on any run being occasioned on the bank, the the Bank of Australia. The prosperity of inhabitants, on the contrary, with one accord, the colony is reviving; and it is probable poured into its coffers all the specie they the shareholders will soon be in the periodcould collect, and, by refranning from de- ical receipt of a fair dividend. This estabmanding it as much as possible, soon enabled lishment has branches in New South Wales, the directors to resume cash payments. The Port Phillip, South Australia, and Van Die-

The Union Bank of Australia was established in London in 1837, with a capital of In 1836, a second bank was established £1,000,000. The institution was at once so

having been offered for sale by advertisement; and although the liability of each proprietor was not limited by a royal charter. Business was commenced by a junction with the Tamar Bank at Launceston, Van Diemen's Land: a branch was next opened at Hobart Town, Van Diemen's Land; then at Sydney, New South Wales; next at Melbourne, Port Phillip; and subsequently at New Zealand, and in other parts of Australasia. The number of branches is now ten; they are managed, as are those of the Bank of Australasia, by an excellent board of directors in London, with boards of local directors in the colonies.

This institution has been admirably conducted from its commencement; the dividends paid annually have ranged from six per cent. to ten, the average of the whole period has been eight per cent. The bank has now a paid up capital of £820,000, and a subscribed capital of £1,000,000. Through this excellent institution, as also through the Bank of Australasia, money may be safely and economically transmitted from England to any part of Australia, and vice

The Commercial Bank at Sydney, New South Wales, is a modern establishment. It has a capital of £73,000 paid up. prudence it withstood the recent commercial crisis, and pays a dividend of ten per cent. per annum.

An Australian Trust Company, has been

established in London by royal charter, with a capital of £1,000,000; I believe it operates principally by making advances on land, stock, &c.; its proceedings do not therefore appear among the banking returns; neither does the Scottish Australian Investment Company, whose funds are employed in advances ın Australia. For the last few years the operations of such institutions must have been very difficult, but when the colonial depression passes away, the field for investment is large, lucrative, and, judiciously conducted. perfectly safe.

Savings' Banks are established in different parts of the colony The deposits in them in February, 1849, were, at Sydney, by 3,606 depositors, £142,104; Windsor, 88 depositors, £2,496; Paramatta, 115 depositors, £2,287, Maitland, 89 depositors, £2,500; Bathurst, 78 depositors, £3,077; Penrith, four depositors, £120. The total deposits, including other sums, was £172,638

The coin in the colony, in proportion to the population, was per head in 1836, £5 9s, m 1837, £5; m 1838, £5 6s; m 1839, £4 10s.; m 1840, '41, '42, £3. This explains the commercial crisis of 1841-2.

The following is a general abstract of the sworn returns, rendered pursuant to the act of Council, 4th Victoria, No 13, of the average assets and habilities, and of the capital and profits of the undermentioned banks of the colony of New South Wales, for the quarter ending 31st March, 1849:-

Liabilities, Assets, Capital, &c	New South Wales	Commercial	Australasia	Union of Australia	Total
Liabilities —					
Notes in circulation	£34,519	£31,226	£79,560	£90,369	£235,675
Bills in circulation	<u>-</u>	_	13,117	7,803	20,921
Balances due to other banks.				212	212
Deposits	225,767	152,735	354,781	412,070	1,145,354
Total habilities	260,286	183,961	447,459	510,455	1,402,163
Assets.—					
Com	157,564	90,958	146,774	245,610	640,908
Landed property	12,570	3,600	15,820	27,018	59,009
Notes and bills of other banks		47	1,376		1,424
Balances due from other banks	5,599	12,772		3,022	21,393
Notes and bills discounted,)					
and all other debts due to	225,793	152,566	779,240	467,159	1,624,760
the banks					
Total Assets	401,528	259,945	943,212	742,810	2,347,497
CAPITAL AND PROFITS					
Capital paid up	125,283	72,955	900,000	820,000	1,918,238
Rate per annum of last di-	8 per cent	10 per cent.	Nıl	6 per cent	
Amount of dividend	5,011	3,237	_	25,317	33,566
Amount of reserved profits after paying dividend .	17,150	993	53,451	77,930	149,526

Note -Out of reserved profits of the N S Wales Bank, a bonus of 5 per cent was, at the same time, paid to Shareholders, and a bonus of 5s per share, equal to I per cent was also paid by the Union Bank of Australia. VOL I.

The quantity of coin in the colony for twelve years is thus shewn; it is to be observed that the local government deposits its treasure among the several banks, which will account for the small sum in the colonial treasury.

Com in the Colonial Treasury, the Military Chest, and the several Banks, on 31st December in each year from 1837 to 1848, inclusive.

Year	Colonial Treasury	Military Chest	Banks	Total
1837	£245,250		£182,182	£427,432
1838	163,000		357,127	520,127
1839	124,100		391,969	516,069
1840	38,900	£49,151	309,529	397,581
1841	25,000	10,000	427,624	462,624
1842	_	32,409	442,980	475,389
1843		3,000	420,972	423,972
1844	_	11,000	548,923	559,923
1845	20,000	54,315	780,850	855,166
1846	25,000	121,173	681,132	827,306
1847	30,600	30,056	573,529	634,186
1848	20,600	15,082	598,121	633,803

Of the whole coin, probably not £50,000 is in active circulation, which, added to about £150,000 bank notes in active circulation, will not give of paper and gold one pound per head annually for the circulating medium of the colony; whereas it ought at the least be five times that amount to facilitate the transfer of property, which takes place yearly to the amount of several millions. The sales by auction alone are now (1850) more than one million sterling annually, and this description of business has largely increased, as shewn in the following table:—

Auction Duty paid into the Colonial Treasury of New South Wales (including the District of Port Phillip) from the year 1834 to 1848, inclusive.

Year	Amount of Duty	Amount of Sales
1834	£2,327	£155,156
1835	3,135	209,053
1836	4.697	313,171
1837	4.820	321,346
1838	6,137	409,166
1839	7.700	513,388
1840	18,701	1,246,742
1841	14.455	963,696
1842	10.291	686,088
1843	6.818	454.565
1844	4.662	310.831
1845	6.068	404.542
1846	6,217	414.490
1847	7.061	470,781
1848	4,551	787,800

Note—From 1st January, 1848, the duty was reduced from 30s to 10s per cent, by Act of Council, 11th Victoria, No 16, but was made chargeable on all sales effected by hoensed suctioneers by private bargain as well as by auction

The amount of British coin in New South Wales on the 31st of December, 1848, was-In colonial treasury, £20,600; military chest, £15,082. Banks-New South Wales. £176.430; commercial, £79,724; Austral-Asia, £137,887; Union, £204,078; in the hands of private individuals, supposed £20,000. Total, £653,803. Paper currency in circulation: Banks-New South Wales, £31,716; commercial, £25,601; Australasia, £74,292; Union, £74,194. Total, £205,803. may be considered a sound state, when there is only £205,803 paper note circulation against £654,803 in com. Such an amount of circulation is, however, far too small for the healthy business of the colony.

At the period of the commercial difficulties. in 1842-3, the local legislature passed a law " to give a preferable hen on wool, from season to season, and to make mortgages of sheep, cattle, and horses without delivery to the mortgagee." This law, as regards live stock, was based on the principle that had been adopted for more than a century in the West Indies, where slaves were made real estate, and were literally walking freeholds, subject to all the incidents of freehold property. though, in this respect, opposed to the spirit of the British laws, the colonial Legislative Council, after two years' trial of the act, finding it beneficial to the colonists, recommended its continuance; and as live stock could not carry on its backs the muniments or title deeds belonging to real property, an efficient registry of all transactions respecting them was adopted. annexed shows the amount of mortgages since 1843. (This return does not include the Port Phillip district). In a statement of the registrar-general, dated Sydney, 30th January, 1847, it is remarked that, in the return of the number of sheep and amount of money advanced under the Lien Act, it would appear as if an additional sum was advanced each subsequent year upon that mentioned to have been advanced the year previous. It must, however, be borne in mind that as the Lien Act only authorises an advance to be made on the ensuing clip of wool, the hens are renewable every year, and that consequently the same sheep and money may be included in one year as that mentioned for the previous year. The same remark may also apply to the mortgages of sheep, cattle, and horses, as the mortgages are generally made redeemable a twelvemonth from the date thereof.

mortgages of real estate, however, the repay- this head the same money may have been ment of the amount is upon an average relent and resecured thrice within ten required to be made every three or four years.

In the return of the amount secured by years, consequently in the return under

Number and amount of preferable Liens on Wool, and of Mortgages on Live Stock, registered at Sydney.

Liens and Mortgages	1843	1844	1845	1846	1847	1848
Preferable hens on wool: Number of liens Number of sheep Amount of liens	54	139	125	149	199	240
	318,739	837,997	657,989	813,951	1,095,402	1,378,180
	£30,664	57,733	55,865	71,351	107,447	108,892
Mortgages on live stock: Number of mortgages Number of sheep Number of cattle Number of horses Amount lent	96	226	152	146	168	205
	397,995	694,381	464,713	491,518	623,257	1,118,762
	44,430	81,679	49,131	42,870	45,578	84,411
	903	2,158	1,568	1,070	1,110	2,056
	£178,567	241,727	132,355	150,733	137,856	219,756

Majesty's government rejected the proposi- or even twelve, per cent.

There are no usury laws in New South tion. It is not possible to state accurately. Wales. The Legislative Council recently therefore, at what rates money is lent on proposed to reduce the legal rate of interest wool and live stock, nor on mortgages of to not more than eight per cent.; but her land, but the range is about eight to ten,

Return of the number and amount of Mortgages on Land in the colony of New South Wales, registered at Sydney, from the year 1837 to 1846, inclusive.

	Lent on Town Lands		Lent on Country Lands			Town and y Lands	Total	
Year	No of Mortgages	Amount	No of Mortgages	Amount	No of Mortgages	Amount	No of Mortgages	Amount
1837	145	£108,860	130	£102,817	11	£19,336	286	£231,014
1838	139	59,702	207	174,388	10	14,801	356	248,891
1839	159	112,835	213	189,447	11	46,534	383	348,818
1840	155	112,158	281	355,224	23	47,358	459	514,741
1841	241	266,944	417	643,111	51	188,685	709	1,098,741
1842	238	282,659	333	384,566	54	157,186	625	824,412
1843	246	275,386	285	333,487	51	446,707	582	1,055,580
1844	192	94,400	252	144,352	50	61,065	494	299,818
1845	135	111,659	152	107,585	31	53,577	318	272,822
1846	146	64,856	148	86,726	14	18,792	308	170,374
1847	156	81,516	149	82,605	15	16,432	320	180,554
1848	196	110,501	103	70,572	8	21,572	307	202,646

The colonists are not, certainly, largely in debt, either to capitalists or to the bank; jects into effect, a grant of 1,000,000 acres and there appears fair grounds for assuming that their mercantile affairs are now in a sound and prosperous state.

Public Companies. — There are several institutions in New South Wales connected with the commercial affairs of the colony. The Australian Agricultural Company was formed in London, by royal charter, in 1824. The design of the projectors was-

1st.—The breeding of horses, on an extensive scale, for sale in New South Wales and in India.

2nd .- The breeding of cattle and other live stock, the raising of corn, tobacco, &c., for the supply of residents in the colony, and the manufacture of salt.

3rd -The introduction, at a future period, of wine, olive oil, hemp, flax, silk, opium, &c, as articles of export, and the raising of coal at Newcastle, N S W

To enable the company to carry their obof land was made to them in fee simple by his Majesty's government. This grant has been selected in three locations, viz. -

At Liverpool Plains . . about 250,000 acres. ,, 310,000 Peel's River Port Stephens . . ,, 440,000 ,,

Of this territory, the company have the power of leasing or selling 500,000 acres, after the expiration of five years, provided the sum of £100,000 shall have been expended on the land, in the formation of mads, the erection of buildings, clearing, cultivating, fencing, draining, or other improvements; and also of alienating any portion of the remaining 500,000 acres, by licence from his Majesty's secretary of state.

2.866; Anglo-Merino, 1.552; improved colomal, 27,254:—total of sheep, 36,615. Of produce of those breeds, 197; colonial ditto, 129; Welsh and Timor ponies, and their produce, 58: total, 384. Of cattle, Durham, 23; improved colonial, 330; Scotch, 51; improved colonial, 867; colonial, 1,305; working oxen, 227: total, 2,803.

The following is a return of the stock of horses, horned cattle, and sheep of the Australian Agricultural Company, at periods of five years from the establishment of the com-

pany to present date:-

Periods					Horses	Horned Cattle	Sheep		
Form	atio	n	of c	om	par	αv	13	208	958
1830					٠.		245	2,227	21,365
1835							422	2,924	55,695
1840							569	5,187	79,961
1845							972	7,189	124,205
1850					•		not	yet	known

Note -Intermediately from the formation of the company Note—intermediately from the formation of the company to the year 1830, a considerable number of cattle and sheep were introduced by purchase and importation, in the year 1830 importation ceased, and from 1835 to 1845, large sales, slaughter for maintenance of establishment, and boiling down proceeded to a large extent, there were also some items of casualties-age, accident, and disease

In the year 1825, a negotiation was concluded with his Majesty's government, by which the mines of coal in New South Wales which had been previously worked by the local government, were transferred to the company, with a grant of 2,000 acres of the coal field. These mines are situated at Newcastle, about sixty miles to the north of harbour, called Port Hunter. The coal is being largely worked (see mines.) The arrangements with her Majesty's government are now satisfactorily concluded, and it is to be hoped that the shareholders who have invested their capital in this useful association to the amount of £300,000 will now begin to reap some reward for their welldirected exertions and sacrifices.

The Australian Agricultural Company is now offering for sale or lease all that portion of its valuable estate near Port Stephens, containing about half a million of acres, which are bounded by the river Manning, intersected by other streams, and provided

On the 31st of March, 1834, the total many thousand pounds. There are churches number of sheep belonging to the company and schools, and a resident clergyman, schoolwere—French Merino, 4,940; Saxon Merino, master, and surgeon are paid by the company for the benefit of their servants.

The farms, which have been long in cultihorses, thorough-bred and Cleveland, and the vation, with other erections, are offered for sale at twenty years' purchase on the esti-

mated annual value.

The uncultivated land will be sold in lots of fifty acres and upwards, at £1 per acre; each £50 paid in England entitling the purchaser to a choice, and a free passage; and each lot will include a right of pasturage for stock on adjoining land until required for

Among other institutions in the colony there is a Savings' Bank at Sydney; an Australasian Colonial and General Lafe Assurance and Annuity Company, whose head establishment is in London; a Sydney Fire Insurance Company, a branch of the Imperial Fire Insurance Company of London; an Australian Gas Light Company, with a capital of £45,000; a Hunter River Steam Navigation Company; a Sugar Company, and other public associations, which are well managed, and conducted with a degree of probity unsurpassed in any other community in the British empire.

The following brief chronological record illustrates the rise and growth of this remarkable section of the British empire:-

1789, one year after the establishment of the colony, first harvest reaped (at Paramatta): 1790, first settler (a convict) took possession of the land allotted him; 1791, first brick building finished; 1793, first purchase of colonial grain (1,200 bushels) by government; 1794, first church built; 1800, Sydney, at the south entrance of a secure first copper coin circulated; 1803, first newspaper printed; 1804, Fort William built; 1805, first vessel built; 1810, first census, free school, toll-gates, police, naming of the streets, establishment of Sydney market, races, and race ball; 1811, first "pound," 1813, first fair; 1815, first steam-engine; 1817, supreme court established, and first bank; 1818, benevolent society formed: 1819, orphan institution founded; 1820, first spirits distilled, and first colonial tobacco sold; 1821, first Wesleyan and Roman Catholic chapels built; 1822, freedom of the press granted, and first agricultural and reading societies formed; 1824, charter of justice granted, Legislative Council appointed with roads and bridges, which have been by the crown, and first court of quarter constructed by the company at a cost of sessions held; 1825, first criminal jury impannelled, first archdeacon ordained, first nals. The editor of the Sydney Morning Hecounty meeting held; 1827, first daily news-tober, 1849, on the "Destinies of the colony," and first college founded; 1831, first colonial steam-boat launched; 1832, first savings' arts formed, and a monthly magazine established; 1834, land sold in Sydney at £20,000 per acre; 1835, first Protestant bishop of Australia; 1840, Legislative Council (twenty-four elective members, and twelve crown nominees), sheep sold at 1s.6d. each, and thousands "boiled down" for the sake of their tallow; 1842, Sydney incorporated (population about 40,000); money provided for emigration from 1832 to 1849, by the sale of land, one million and a quarter sterling; 1850, sheep in the colony nearly 12,000,000, horned cattle nearly 2,000,000, horses, 150,000, pigs 100,000, population estimated at 250,000, no convicts in the colony, and grant of a representative Assembly and responsible government to the colonists.

FUTURE PROSPECTS.—The rapid strides by which New South Wales has acquired its present position, are so extraordinary, as to raise fears for its duration. These fears would be only too well grounded, if the future prospects of this extensive country, and of its increasing population, depended solely on pastoral pursuits. Had New South Wales no agricultural capabilities, no mineral wealth, no fisheries, then indeed might we look forward with melancholy foreboding to the time when her vast pastures would be overthrouged, as the epoch which sooner or later must arrive, and mark the period of decadence. But the pastoral age is the primary step in the history of a people possessed of the varied elements necessary to constitute a mighty and permanent empire. The reason is sufficiently evident, the pastoral resources of a newly-discovered region are naturally the most readily available to the settler, who from thence obtains not only present sustenance, but the means of developing the less prominent, but more intrinsically valuable capabilities of the soil.

That the colonists themselves are not disposed to consider their fine country as a vast "sheep walk," or to restrict their energies to the multiplication of flocks and herds, is evi- infant, starving, struggling penal settlement dent from the facts adduced in the previous at Sydney Cove, to the flourishing colony of pages, and from the tone of their public jour- New South Wales.

coroner appointed, and first constitutional rald, in a "leading article," dated 20th Ocpaper established: 1829, first circuit court states, that according to the ratios of inopened; 1830, first civil jury impannelled, crease which have heretofore prevailed, the number of sheep in New South Wales will, in the year 1857, amount to thirtu-two bank instituted; 1833, mechanics' school of million, and the number of other live stock to five and-a-quarter million. For the depasturing of these animals, it is estimated an area of 231,000 square miles would be required. It is calculated, that in 1857, the sheep and other stock in New South Wales and Port Phillip, independent of those in Southern and Western Australia, will exceed one hundred and forty-five million, and require 875,000 square miles of pasturage, or about one-third the area of the whole ısland. This is assuming that about four acres are necessary to feed each head of live stock. Making ample allowance for the disturbing causes by which such calculations are affected, the urgent necessity for the production of other staple exports may be considered as sufficiently proved, although, of Australian wool alone (it may be right to add). England could receive for her domestic use and foreign exports, at least one hundred million pounds.

The first steps in the progress from the nomadic to the agricultural state, have been taken: New South Wales now not only grows sufficient grain for the consumption of her own people, but has become an exporting country; five years ago, its vinevards covered only 500 acres, now they extend over 1,000; and the wine made from them has increased, within the same period, from 30,000 to 100,000 gallons. The colonial mills have increased in nine years from seventy-seven to 172, and the domestic manufactures, in the same period, from fifty to 133. The vine, the olive, and the mulberry-cotton, sugar, and tobacco-hemp, timber, and tallow, may all be produced to an almost incalculable extent in Australia, and are all in constant and increasing demand in Europe. Humanly speaking, therefore, the welfare of this colony rests on a sound basis, and, with the blessing of Divine Providence, its future greatness may seem as marvellous to our descendants, as the position it has already attained appears to those whose lengthened span of life has enabled them to watch its progress from the

BOOK III.—VICTORIA. OR PORT PHILLIP.

CHAPTER I.

POSITION—BOUNDARIES—HISTORY—TOPOGRAPHY—GEOLOGY—AND CLIMATE.

Australia, comprises the extreme southern portion, between the parallels of 37° and 39° S. lat., and the meridians of 141° and 150° country in 1836, gave it the name of Australia Felix, from the beauty of the scenery, and it is in future to be termed Victoria, in honour of our gracious sovereign.

colonies constitutional forms of government, north and north-east by a straight line drawn from Cape Howe to the nearest source of the river Murray, and thence by the course of that river to the eastern boundary of the colony of South Australia." On the south it is separated from the island of Van Diemen, or Tasmania, by Bass' Strait.

HISTORY.—Captain Cook (of whom fuller mention will be made in the history of New Zealand,) visited the south coast-of Australia, near Cape Howe, 19th April, 1770, and proceeded to the northward. After the British settlement was formed at Sydney Cove (Port Jackson) in 1788, attention was directed to a survey of the adjacent southern shores; and, in 1798, Mr. Bass, surgeon of H.M.S. Reliance, with a whale-boat and six men, sailed along the south-east coast, doubled the projecting cape termed Wilson's Promontory, entered the strait now called

 England, 50,400; Wales, 7,500; Scotland, 30,300; total, 88,200 square miles.

This division of the island-continent of he termed Port Western, from its situation with reference to Sydney. supply of provisions compelled him to return to Port Jackson The talents and E. long. The area is estimated at 97,000 intrepulity of this successful explorer, insquare miles, s. e. about 10,000 square miles duced the governor of New South Wales to larger than England, Wales, and Scotland * direct him, together with heutenant Matthew The chief harbour was called Port Phillip, Flinders, to prosecute the survey in a after the first governor of New South Wales, schooner, built at Norfolk Island, of twentywhen discovered by heutenant Murray, five tons burthen. In this small vessel, in 1802. Sir T. Mitchell, who explored the named the Norfolk, these gallant officers sailed, in October and November, 1798, through Bass' Strait; and, as noted at p. 368, demonstrated the insularity of Tasmania. In March, 1802, heutenant Murray, In a bill now under discussion in parlia- in command of H.M. brig Nelson, a vessel ment, for separating the district called Port of sixty tons burthen, in which heutenant Phillip from the Sydney or Middle District Grant had sailed from England to Ausof New South Wales, erecting Port Phillip tralia, entered a large harbour a little to the into a separate province, under the name of westward of Port Western; and a few weeks Victoria, and granting to the Australian after, captain Flinders, in H.M.S. Investigator, visited the same noble haven, which this district is stated to be "bounded on the received the name before-mentioned from captain Hunter, R N., then governor of New South Wales, in honour of his esteemed predecessor. Flinders described the coast as "a grassy country, capable of supporting much cattle, though better adapted for sheep."

While captain Flinders was exploring the coast adjacent to Port Phillip, he fell in with captain Baudin, a French naval surveyor, who had given the name of Terre Napoleon to a considerable portion of the south coast previously visited by Flinders. His Majesty's government, probably with a view to prevent a French colony being there formed, and at the instigation of Flinders, determined, in 1803, to found another penal settlement at Port Phillip; and colonel Collins, of the royal marines, was sent from England with a fleet of convicts and a military guard. He reached his destination, and landed at Point Nepean, in 1804. Mr. after him, and anchored in a harbour which Grimes, then surveyor-general of New South Wales, was despatched from Sydney to make a survey of the port; but he was evidently

unfit for the duty assigned him; for he began to feel straitened for sheep pastures. in the sand.

Lieutenant-governor Collins, despairing of success, and finding that many of the con-fixed at Portland Bay by the Messrs. Henty, victs were endeavouring to escape by taking from Launceston In April, 1835, six Launto the woods, re-embarked the prisoners and ceston settlers, Messrs, S. and W. Jackson. their guard, and proceeded to the Derwent John Pascoe Fawkner,* Marr, Evans, and river, in Van Diemen's island, where he Lancy, formed themselves into an association landed, and in conjunction with lieutenant- to proceed with their families and stock to colonel Patterson, who had been sent from the opposite shores of Port Phillip. It was 16th of December, 1824. Port Phillip In consequence of the repreof New South Wales, in 1826, sent captain miles. Weatherall, R.N., with a party of soldiers Western Port, and form there a station which might attract settlers. A small fort was erected at the east extremity of Phillip island, which lies across the mouth of the port, and the projected settlement was made upon the mainland of the opposite shore. Captain Weatherall reported that coal was to be found in the vicinity of the station, both on Phillip Island and at Cape Patterson; but although the description of the place was favourable, no settlers resorted thither, and in about two years the military and nava force was recalled, and the station abandoned. To the colonists of Van Diemen's Land is due the credit of having commenced the permanent settlement of Port Phillip The colony which had been founded at the Derwent river, on the southern shores of Van Diemen's Island, in 1804, gradually extended to the river Tamar, at Launceston, on the northern shores of the island, and whaling establishments were formed in Bass's Strait the adjacent shores of Australia. whalers, more intent on fishing than grazing paid little attention to the Port Phillip shores, but rumours of a favourable characte respecting a fine, grassy country reached the flock-owners of Van Diemen's Land, who

failed in discovering the river Yarra Yarra, At Two-fold Bay, a little to the northward and obtained water only by sinking wells of Cape Howe, an extensive cattle station was established by the Messrs. Imlay, from Sydney; and in 1834 a whaling station was Sydney, founded the settlement now known necessary to send for a suitable vessel to as Hobart Town. For twenty years from Sydney; in the mean time their intention this period this portion of Australia was was made known, the proposition was favour-In 1824 Messrs Hovell and ably viewed, and became the absorbing topic Hume made an overland journey from Appin of the day. Mr. John Batman, descended in Cumberland county, New South Wales, from European parents, and born at Parato the southward and westward, crossed the matta, but then a settler in Van Diemen's Murrumbidgee river, and after a severe and Land, New South Wales, resolved to take the perslous journey, reached the sea coast, at a lead in this novel enterprize:—on the 12th bay called Geelong by the natives, on the of May, 1835, he embarked, with seven semi-Geelong Bay civilized natives of New South Wales, in a forms the western portion of the haven of small vessel at Launceston, Van Diemen's Land, and directed his course to Port Phillip, sentations of these gentlemen, the governor distant from the mouth of the Tamar 190 Arriving at Port Phillip (called Iranmor by the natives), Batman landed, and under captain Wright, to take possession of on the day after his arrival met with a party of the aborigines on the banks of the Weirabee (the river Ex of the colonists), to whom he explained that he intended for the future to reside among them, with his wife and seven daughters, and that he wished to purchase some of their land for depasturing his stock: and he presented them with blankets, tomahawks, knives, scissors, looking-glasses, and necklaces. The aborigines appeared disposed to entertain his proposition; he remained a month at Port Phillip, and seems to have conducted himself with considerable tact as well as good feeling,-he induced the natives to cede to him, his heirs, and successors, a tract of country "extending across from Geelong harbour about due south for ten miles, more or less, to the head of Port Phillip, taking in the whole neck or tract of land, and containing about 100,000 acres." For this he agreed to render in return "a yearly rent or tribute of fifty pair of blankets, fifty knives, fifty tomahawks, whence excursions were frequently made to fifty pairs of scissors, fifty looking-glasses,

* Credit is due to this gentleman for establishing the first newspaper in Port Phillip; it was issued in manuscript, but subsequently printed in a foolscap form, and is now (1850) a flourishing daily paper + See Information on Australia Felix in 1840, by

George Arden, Esq , then the able editor of the Port Phillip Gazette.

twenty suits of slops or clothing, and two thither to the value of £5,000, to be placed tons of flour." The deed of assignment was there under his personal superintendence; signed by Jaga-Jaga, Cooloolack, Bungarie, and that this application was not granted and others, eight of the natives, with a by the government at Sydney, because the mark x. By another deed Batman purland in question was beyond the limits of chased "all that tract of country situated that territory, and the occupations of Wesand being at Port Phillip, running from the tern Port had been altogether abandoned. branch of the river at the top of the port, about seven miles from the mouth of the stated, that he confidently trusted the British river forty miles north-east, and from thence westerly forty miles across Iramnoo Downs or Plains, and from thence S.S W. across Mount Vilnmarnatar to Geelong harbour, at the head of the same, and containing about 500,000 acres, more or less." For this Batman agreed to pay to the eight aborigmes as annual rent or tribute, "100 pair of blankets, 100 knives, 100 tomahawks, fifty suits of clothing, fifty looking-glasses, fifty pairs of scissors, and five tons of flour." deeds were signed and exchanged "on the banks of Batman's Creek, 6th of June, 1835." Batman promised also to protect the natives, to employ them in the same manner as the New South Wales aborngmes, to clothe and feed them. He certainly seems to have gained the good-will of the Port Phillip The total value of his proposed tribute was about £200 per annum. After leaving three Europeans and five New South Wales natives to erect a house, and prepare some ground, Batman re-embarked for Launceston on the 14th of June, and reached the Tamar river in thirty-six hours On arriving in Van Diemen's Land he proceeded to Hobart Town, where an association, consisting at first of sixteen individuals, was quickly formed for the colonization of Port Phillip. Money was subscribed, and Batman appointed agent for the company.

for Port Phillip, on his second journey, tribe, consisting of thirty or forty indivi-Batman addressed to colonel George Arthur duals, roving over an almost unlimited extent (then heutenant-governor of Van Diemen's of country, could acquire such a property Land) a letter, dated 25th June, 1835, in m the soil as to be able to confer upon which he laid fully before the colonial gov- the purchaser the right of possession which ernment the course that he had adopted. He stated that, for the previous six years, he had been most actively employed in secretary of state, that the land had been endeavouring to civilise the aborigines of taken possession of, for the crown, by colonel Van Diemen's Land; that, under his gui- Collins, previous to the settlement of Van dance, the humane objects of the local Diemen's Land, and subsequently by capgovernment towards the aborigines had been tain Wright, in 1826. He also stated, that carried into effect; that, in 1827, himself the formation of a colony at Port Phillip and Mr. Gellibrand had addressed a joint would be highly advantageous to Van Dieletter to the government of New South Wales, men's Land; that a liberal grant of land soliciting permission to occupy land at Port would be a well-bestowed gift on Mr. Bat-Phillip or Western Port, and to export stock man, but that he had informed the explorer

Batman, in his letter to governor Arthur, government would duly appreciate the treaty he had entered into with the aborigineswould not, in any manner, molest the arrangements he had made, and that he should receive the support and encouragement, not only of the local government, but also that of his Majesty's ministers, in carrying the objects into effect. Finally, he described the country in the following terms :-

"I traversed the country, in opposite directions, about fifty miles, and having had much experience in lands and grazing in New South Wales and in this colony, I have no hesitation in asserting, that the general character of the country is decidedly superior to any which I have ever seen. It is interspersed with fine rivers and creeks, and the downs were extended, on every side, as far as the eve could reach, thickly covered with grass of the finest description, and containing an almost indescribable extent of fine land, fit for any purposes.'

Governor Arthur, in a letter, dated Government-house, Van Diemen's Land, 4th July, 1835, transmitted copies of Batman's letter and deeds of transfer with the natives to the secretary of state for the colonies, soliciting that he might be "made acquainted, at an early period, with the views which his Majesty's government tained upon this very important subject." The governor added, that Mr Batman was an enterprising settler, that he had acted with prudence as well as humanity in his intercourse with the aborigines, but that it Previous to departing from Hobart Town was doubtful whether a migratory savage would be recognised in our courts of law. The governor further hinted to his Majesty's treaty with the natives, he could not hold sail, and reached Western Port, but not out the slightest prospect of its being fa-

vourably considered.

Lord Glenelg, then his Majesty's secretary of state for the colonies, replied to with a jealous eye, these intruders on his governor Arthur's communication of 4th broad domains, and warned them against July, 1835, in a despatch, dated Downing encroaching on his territories Street, 23rd January, 1836. His lordship therein stated, that he would not then enter into the question of the right possessed by laid claim, and they settled on a fine tract the chiefs who were the contracting parties to the territory of which they agreed to Water river, (called the Arndell by Hume), dispose, or of the justice and fairness of about twenty miles above its junction with the arrangement, but would simply advert the waters of the Yarra Yarra river. Fawkto the practical question at issue, namely, the expediency of confirming the grant to proclamations of Batman, took up a position an association. settlements by private individuals or companies in the unlocated districts of Australia, had of late years been discouraged by his Majesty's government, as leading to fresh establishments, involving the mother country in an indefinite expense, and exposing both the natives and the new settlers to many dangers and calamities. His lordprudence and of justice, and, I think I may add, of humanity, in this policy, that I do not feel disposed to depart from it in the present instance. The conduct of Mr. Batman towards the natives has been such as to make me regret that I find it my duty not to advise his Majesty to sanction the proceedings of that gentleman and his asso-

the proposition of forming a settlement in the vicinity of Port Phillip, and of placing fertile region until then undisturbed, save it under the jurisdiction of the supreme court of Van Diemen's Land, seemed open to some very serious objections; but it ner fixed his camp, expanded its waters into should receive every consideration. Mean- a basin, well adapted for the reception of while Batman, who appears to have anticipated a more favourable reply, proceeded to natural dock, a ledge of rocks partially a minuter survey of the vast estates he con- crossed the river, which occasioned a fall sidered himself to have purchased, and in the body of the water, and served to proselected for his own residence the central tect the freshness of the upper portion of position of Indented Head, situated about the stream from the influx of the brackish fifteen miles from the entrance to Port or salt stream caused by the flood tide. The Phillip, and commanding a beautiful and river pursued a circuitous course to the westextensive prospect. were occurring, the six Launceston settlers, its northern bank, and beyond appeared headed by Messrs. Jackson and Fawkner, the beautiful valley of the Salt-water river, had procured their vessel from Sydney, which united with the Yarra Yarra about which they denominated the Enterprise. four miles above its junction with the bay. In this they embarked with their families In this favourable situation Fawkner comand live stock, but a gale of wind drove

that, with regard to the confirmation of his them back into the Tamar; they again set considering the land inviting, the Enterprise proceeded to Port Phillip, which it reached on the 30th August, 1835. Batman viewed, Threats of legal proceedings induced the Messrs Jackson to move beyond the limits to which he of pastoral land, situated upon the Salt ner, however, disregarding the minatory All schemes for making of great beauty and promise on the north bank of the Yarra Yarra, about eight miles by the course of the river, from its junction with the upper termination of the bay *

The locality thus chosen must have been peculiarly attractive to a pastoral eye the banks of the river sloped gently to a rising ground, covered with luxuriant grasses, and from the summit of the eminence on the ship added—"And there is so much of northern bank, the waters of the bay of Port Phillip, distant two miles, were visible to the southward, over the tops of the trees of an intermediate flat. The country, in a northern direction, was of an undulating character, covered with grass and moderately wooded, and the Yarra Yarra rolled its deep and dark waters from the eastward, between banks that were occasionally lofty and picturesque, while the grassy downs were Lord Glenelg concluded by saying, that covered with the light-bounding kangaroo and the majestic emu, who enjoyed the by a few wandering savages

The Yarra Yarra, at the part where Fawkshipping At the upper extremity of this While these events ward. A salt-water lake, or swamp, skirted

^{*} Westgarth's Australia Felix.

menced ploughing the ground, and planting restrain the population of New South Wales his corn and seeds, which in the ensuing harvest yielded him an ample reward. To add to his resources, Fawkner opened a "public-house." Batman, finding how formidable a rival he had to compete with, removed from the inconvenient locality he had previously chosen, at Indented Head, to a spot nearer the camp of Fawkner; and on a beautiful green he opened a general store, to supply the wants of the colonists, who now began rapidly to crowd to this land of promise. That the position of Fawkner was well selected, is evident from its being subsequently chosen by his Majesty's government for the site of the capital of the rising settlement, and the rude log dwellings of Fawkner and Batman are now overshadowed by the handsome buildings of the prosperous city of Melbourne.

the settlement. The intelligence of the fine country round Port Phillip, the knowledge that numerous flocks and herds, belonging to Messrs Henty and other settlers near Port Dalrymple, Van Diemen's Land, had been conveyed to the opposite coast at Cape Portland, in 1834, where they throve well, and increased with great rapidity, a failure in the supply of pasturage in the available R Bourke had, in his despatch of 4th July, districts of Van Diemen's Land, and the desire of some to remove from a settlement where bush-ranging convicts made life and property insecure,—these and other causes led to a Port Phillip fever; and many hastened with their flocks and families to the fertile shores from which glowing accounts were daily received at Launceston.

The governor of New South Wales, Sir Richard Bourke, deeming the Port Phillip country within the territories subject to his jurisdiction, issued, with the advice of his executive council, a proclamation, dated the British crown; that all treaties, conered and dealt with as trespassers

from dispersion, that the very nature of their main pursuit-sheep-farming and depasturing cattle, compelled the colonists to send, yearly, large flocks beyond the existing boundaries of location, to preserve them in health throughout the year, otherwise the settlers must restrain the increase, or endeayour to raise artificial food for their stock. Whilst nature all around presented an unlimited supply of the most wholesome nutriment, either course would seem a perverse rejection of the bounty of Providence, and the latter would certainly require more labour than could be obtained in New South Wales, or than immigration could profitably supply. Sir R. Bourke frankly acknowledged that, independent of these powerful considerations, he was unable to comply with the desire of her Majesty's govern-To return to the chronological history of ment at home, "to prevent dispersion." No adequate measures could be resorted to for the general and permanent removal of intruders from waste lands, without incurring probably a greater expense than would be sufficient to extend a large share of the control and protection of government over the country which it was found desirable to occupy. It was on these principles that Sir 1834, to his Majesty's secretary of state, recommended the propriety of extending in a southern direction, to Twofold Bay, the limits within which, land might be acquired from the crown, but the Earl of Aberdeen, then his Majesty's secretary of state for the colonies, in a despatch, dated 25th December, 1834, did not agree with Sir R Bourke. his lordship said-"His Majesty's government are not prepared to authorise a measure, the consequences of which would be to spread over a still further extent of territory a population which it was the Sydney, 26th August, 1835, declaring that object of the land regulations to concenthe lands in question were the property of trate." This intimation, evidently based on the theory which, in practical working, has tracts, or bargains with the aboriginal natives been a chief cause of the distress, and for the purchase of said lands, were "void fluctuation in the value of property in Ausagainst the rights of the crown;" and that traha, compelled Sir R Bourke to check, as all persons found in the possession of such far as possible, the herd and sheep-owners lands, without the licence or authority of turning "squatters," and naturally seeking his Majesty's government, would be consid- for their expanding flocks fresh pastures. A copy His excellency, therefore, could afford no of this proclamation was transmitted, by encouragement to a Mr. James Atkinson, Sir R Bourke, to his Majesty's secretary of who proposed to form a settlement at Twostate for the colonies, on the 10th October, fold Bay, by means of immigrants from the 1835. In this able despatch, the governor north of Ireland. But, on visiting Twofold pointed out the fallacy of endeavouring to Bay, Sir R. Bourke found the greater part

the country of St. Vincent and Twofold Bay, depastured by flocks and herds, attended by shepherds and stockmen, the pastures already contributing largely to the wealth of the colony of New South Wales, and exceeding, in importance, many of the districts where land was then (1834-5) disposable by sale or on lease. Many considerations rendered the governor unwilling to oppose the settlement of Twofold Bay in 1834, and now, in October, 1835, induced him to intimate to his Majesty's secretary of state, that "it would be more desirable to impose reasonable conditions on Mr. Batman and his associates, than to insist on their abandoning their undertaking" excellency therefore proposed, in this despatch of 10th October, 1835, that a township be marked, both at Twofold Bay and in some eligible spot on the coast to which Mr. Batman's party had proceeded town allotments, and a portion of the adjoining territory, might then be declared open to location, according to the existing regulations; and purchasers of land would probably soon be found Finally, his excellency remarked, that dispersion would go on notwithstanding discouragement, and would be accompanied by much evil that might be prevented by the guidance and control of authority opportunely introduced; and his Majesty's government ought not to delay taking some measure in assertion of the rights of the crown over these lands.

The conclusive reasoning of Sir R Bourke seems to have produced an excellent effect on Lord Glenelg, then his Majesty's secretary of state for the colonies, who had also been addressed, on the 26th January, 1836, by Mr. George Mercer, of Edinburgh, as shareholder in and agent for the "Geelong and Dutigalla Association," who urged a crown grant of the territories purchased by Batman and Swanston, at Port Phillip, being conceded to them. Lord Glenelg, in a despatch to Sir R. Bourke, dated Downingstreet, 13th April, 1836, admitted that there were physical impediments in Australia to the close concentration of the inhabitants (contemplated by the land regulations of 1831), with which it would be futile to contend by human laws, and that the principle Derwent Company, a Clyde Company, proof counteracting dispersion, when reduced moted chiefly by captain Wood, occupied to practice, must unavoidably be narrowed the fine pastures around the site of the within the limits which the physical pecu- present town of Geelong; about the middle harities of a colony dictate and require. of 1836, one year after the first location,

of the vast tract of fertile land lying between by nature for a pastoral country; the age of manufacturing industry was of course remote, and the quality of the soil inevitably separated the shepherds and herdsmen, and all their associates in labour, very widely from the general seat of government, and from each other It was therefore wholly vain to expect that any positive laws, especially those of a very young and thinly peopled country, would be energetic enough to repress the spirit of adventure and speulation in which the unauthorised settlement at Port Phillip had originated. Lord Glenelg therefore expressed his general concurrence in the views entertained by Sir R Bourke, and sanctioned his acting on them in the manner proposed. In concluding his despatch, Lord Glenelg, with his wonted candour, thus expressed the enlarged views, a consideration of which had influenced him in arriving at his present decision :-

"The motives which are urging mankind, especially in these days of general peace and increasing population, to break through the restraints which would forbid their settling themselves and their families in such situations, are too strong to be encountered with effect by ordinary means. To enencountered with effect by ordinary means gage in such a struggle would be wholly irrational All that remains for the government in such circumstances, is to assume the guidance and direction of enterprises, which, though it cannot prevent or retard, it may yet conduct to happy results It may indeed admit of serious doubt, whether the settlers at Port Phillip and Twofold Bay have not, in reality, given birth to undertakings which deliberate reflection would have recommended rather than discouraged Each of those places will probably, at a time more or less distant, form the nucleus of a new and flourishing settlement, interchanging with the districts at present occupied in the vicinity of Sydney many articles of internal commerce, and contributing to expedite the general occupation, by the people of this kingdom or their descendants, of those vast territories in which our national wealth and industry have already, in the last half century, converted an unproductive waste into two great and flourishing provinces In producing and multiplying such results as these, it has, I believe, always occurred, and is perhaps inevitable, that the sanguine ardour of private speculation should quicken and anticipate the more cautious movements of the government

While the local and home governments were engaged in considering the fittest course to be pursued, a stream of colonists was pouring into Port Phillip, and several copartneries or associations were formed. Port Phillip Association merged into the New South Wales, he added, was marked 35,000 sheep had arrived from Van Diemen's Land and pastoral stations spread over the "extremely able and elaborate opinion." native tribes, had large bells at their stations for sounding an alarm when in want of aid.*

In June, 1836, Mr. Stewart, a magistrate, arrived at Port Phillip, as the representative of her Majesty's government. he had been despatched thither by Sir R Bourke, from chase in Australia Felix from the crown. Sydney, with instructions to ascertain the aborigines without the previously obtained sanction of government. He found that 177 persons from Van Diemen's Land had had come to a mutual understanding on their respective claims, and appointed a muchesteemed fellow-colonist (M. J. Simpson) as an umpire in all disputes.

The claims for the land purchased from the aborigines by Mr. Batman and of the Van Diemen's Land Association, with whom he co-operated, were submitted to the late by a tomahawk. Mr. Burge, Q.C., who had specially studied the subject of colonial law proposed, were .—(1.) Whether the grants obtained by the association were valid? (2) Whether the right of the soil is, or is not, vested in the crown? (3) Whether the crown could legally oust the Association from their possessions? Mr. Burge gave his opinion at considerable length: the substance of it was, that the grants obtained by the Association were not valid, and that as between Great Britain and its own subjects, as well as the subjects of foreign states, the right to the soil was vested in the crown, by virtue of prior discovery Mr. Pemberton and Sir William Follett said they entirely concurred in the conclusions of Mr. Burge, as expressed in his

* Some settlers when landing sheep at Port Phillip, perceived a man of great size, differing from the aboriginal natives, but scarcely distinguishable as a European, seated under a tree, watching the shepherds with a listless gaze When accosted, he seemed to be roused from his lethargy, and was observed to repeat slowly the words uttered, as if memory was seeking to bring back some long-forgotten ideas. He gradually acquired the power of expressing himself in English, when it was ascertained that he had originally been a private soldier, named Buckley, and had been transported for striking his superior officer; was in the fleet sent out to Port interest in protecting the reclaimed man.

plains around the Salt Water river, the This terminated the existence of the Van Weirribee, the Barwon, and the Leigh. The Diemen's Land Association, and of other settlers being at a remote distance from each companies formed for the colonization and other, and occasionally in the vicinity of appropriation of the lands of Australia Felix. The members of these companies were, however, allowed, in consideration of their payments to the aborigines, a remission to the extent of £7,000, of the purchase-money of whatever lands they might choose to pur-

Mr. Gellibrand, a legal practitioner of capabilities of the place, and to proclaim the repute, and attorney-general for Van Dieinvalidity of all purchases of land from the men's Land, was one of the principal supporters of Mr. Batman; he proceeded to Port Phillip, in 1837, to protect the rights of the Van Diemen's Land Association, but already settled in the neighbourhood of the in an excursion of exploration from Geelong bay, and had brought with them live stock towards the sources of the Barwon river, and other property to the amount of £110,000. this unfortunate gentleman, with a Mr. At this period Messrs. Batman and Fawkner Hesse, perished. He is said to have been murdered near the mission settlement of Buntingdale, by the aborigines; in 1839 Mr. Hawdon was shewn an European skull of highly intellectual formation, which was supposed to have been that of Mr. Gellibrand. On the back of the skull were the marks of two blows apparently inflicted

> The value of the newly occupied territory The questions had hitherto been known to few besides the settlers themselves, and even they were acquainted with little beyond the immediate neighbourhood of that portion of which they had taken possession, but after the journey from Argyle county, in New South Wales, accomplished by Messrs. Hovell and Hume, in 1824-5, favourable reports of the country became more widely circulated; to the exertions, however, of Sir Thomas Mitchell, is due the credit of establishing the route and laying open this region to settlers. In 1836 the surveyor-general having (during a journey related in a previous chapter) traced the junction of the Lachlan with the Murrumbidgee, and of the Murrumbidgee with the Murray, returned homewards along the left Phillip with Colonel Collins in 1803, and, thirtythree years previous, had effected his escape when Collins landed his prisoners Buckley had lived among the natives, and had "entirely dismissed the outward characteristic of a civilized being," he was extremely reserved and uncommunicative in his manners. Mr Batman took care of the unfortunate man, governor Arthur granted him a pardon, and he was appointed a constable at the new city of Melbourne, but, on expressing a reluctance to remain in the scene of his savage life, he was transferred to Hobart Town Mr Logan took an active

the confluence of the Goulburn, Hovel, or uniform price system, from 12th September, Bayunga. Sir Thomas then quitted the Murray, and in lat. 36° S., long. 144° E., struck off in a southwest direction, when he entered a country which he describes his expedition as having traversed in two directions with heavy carts, meeting no other obstruction than the softness of the soil, and in returning over flowery plains and green hills fanned by the breezes of early spring "I named this region Australia Felix, the better to distinguish it from the parched deserts of the interior country, where we had wandered so unprofitably and

so long." The official reports of Sir Thomas Mitchell, confirming, as they did, the glowing accounts of the immigrants from Tasmania, increased the desire for locations at Port Phillip, large herds of cattle, and flocks of sheep were driven from the old settled districts of New South Wales, into the new region; and in April, 1837, on the arrival of Sir R Bourke, the governor of New South Wales, to inspect the place, it was found to contain 150 horses, 2,500 horned cattle, 140,000 sheep, and 450 colonists. The town (now city) of Melbourne was laid out in the form of a parallelogram, one mile in length, by three quarters of a mile in breadth, along the banks of the Yarra Yarra The first land sale took place in June, 1837; as the government required gold in payment for the land, and there were but few possessed of the precious metal, the lots were then sold at from £30 to £100 The value of these town per half acre. sections rapidly increased, at a sale by auction, in 1839, three half-acre sections realised the enormous sum of £10,250—and the purchaser made money by his bargain as he cut up the sections into several smal lots, to meet the great demand for building applotments. Speculation was carried to a great height. Up to the end of 1841 government sold, chiefly by public auction 205,748 acres of land, and realised for it no less than £394,353. In 1837, the sales of town allotments in Port Philhp district amounted to £7,245, in 1838, to £8,746 in 1839, to £8,988; in 1840, to £79,168 in 1841, to £4,028; total, £108,177. O these sums, £4,576 were for town lots in Geelong, £11,026 for ditto in Portland £7,638 for ditto in Williamstown, and the remainder for Melbourne. The country and suburban lands in the Port Phillip dis

or southern bank of the latter river to rict, previous to the introduction of the 838, to 15th October, 1840, amounted to £231,526, viz.—in 1838, £25,286, in 1839, £60,964; in 1840, to October, £145,272. In 1839 sheep sold at £3 to £3 10s. each. cattle at £12 to £15, and ordinary saddle horses for upwards of £100 each. Flour rose to £80 and even £100 per ton of 2,000 lbs. weight, the common four lb. oaf was sold for 3s 6d.* Ten shillings a day was no unusual remuneration for the ordinary descriptions of labour, and cottages of four rooms, with very moderate pretensions to appearance or accommodation, were et at an annual rent of £150 to £200. Vessels hastened to "Australia Felix" from very quarter of the globe, and at the port of Melbourne, less than three years after the foundation of the colony, 130 vessels were seen at anchor in one day.

It was about this period, I believe, that Sir G. Gipps, then governor of New South Wales, informed her Majesty's government that the road to Melbourne might be tracked for miles by champague bottles; and there is a story of two bullock-drivers who, at a country "public house," on their way to Melbourne, called for a dozen of champagne, emptied the bottles into a bucket, and then deliberately commenced drinking the froth-

ing wine from tin panikins

Such a state of things could not last; in 1841 the reaction commenced, increased in 1842, and in 1843, sheep which but four years previous had been bought at £3, were sold for 1s. 6d. Cattle fell from £12 to 12s each, and other things in proportion. The insolvenceies were all but universal. At Melbourne there were in 1842, 113, in 1843, 124, in 1844, 45 Total, 282 The colony sustained during this commercial crisis great destruction of property, it is now recovering. Port Phillip, or Victoria, at present contains a population of nearly 50,000, and its live stock in 1849 consisted of 17,000 horses; 400,000 horned cattle, 5,200,000 sheep; and about 6,000 swine.

In 1839, her Majesty's government created the Port Phillip district a dependency of New South Wales, and appointed Charles Joseph La Trobe, Esq, superintendent, or heutenant-governor of the same, under the directions of the governor of New South Wales. The authority of the superintendent was generally exercised more in surveillance than command, for he stood in the same

^{*} Westgarth's Australia Felix, p. 177.

ties at Sydney. combined or separate. district was authorised to send six repre- on the spot. and finally refused to send representatives provisions of the bill now before Parliament.

relation to the governor of Sydney as the to the Legislative Council at Sydney, alleging latter stands with respect to the secretary of that they could not find independent and state for the colonies. The supervision of properly qualified persons to travel a distance the departments of the treasury, survey, cus- of 600 miles, and reside at Sydney for six toms, post office, sheriff, and clerk of the months in the year, in order to give attencrown, were ordered to be exercised through tion to the affairs of the Port Phillip district. the chief functionaries at Sydney; but the Desirous of marking the impossibility of judicial, marine, police, and protectorate of continuing the existing state of things, the aborigines, were independent of the authori- electors at Melbourne elected Earl Grev. her Separate statistics were Majesty's secretary for the colonies, as their ordered to be kept, as far as possible, of the representative for the New South Wales Port Phillip district, and in the previous Legislative Council. This does not appear to book on New South Wales, the returns of have been done from any feeling derogatory the two divisions of the province will be found to the noble lord, but simply to show their The Port Phillip inability to obtain any fitting representative The secretary of state (see sentatives to the Legislative Council at page 550) complied with the urgent request Sydney. As the population and wealth of of the colonists of Port Phillip, and an order Melbourne and the surrounding country in council, as previously stated (page 554), increased, the colonists objected to the dis-decided on the erection of the Port Phillip trict continuing longer associated with New district into a separate colony, to be called South Wales; they sought the control of after our gracious sovereign Victoria, and their own local affairs, petitioned the home to be ruled by a governor, aided by a authorities for a separation from the Sydney Legislative Council, partly nominated by the district, sent home an active and intelligent crown, and partly elected by the colonists, the gentleman (Mr. Cunningham) to represent proportion being one-third nominees to twotheir views to her Majesty's government, thirds elected representatives. Such are the

CHAPTER II.

BOUNDARIES—AREA—PHYSICAL ASPECT—MOUNTAINS—RIVERS—LAKES—HARBOURS -COUNTIES-TOWNS-GEOLOGY-MINERALOGY-SOIL AND CLIMATE.

by a line bearing north-west from Cape equal in size to Great Britain. Howe to one of the branches of the Murray river, which divides the province from Auckland county and Maneroo Plains, in New South Wales; the northern boundary is formed by the Murray river to the frontier to the Pacific Ocean, along the South Austrahan frontier; and the southern by Bass's strait, which separates Van Diemen's island

The north-east limits of Victoria are defined = 51,200,000 acres, it is therefore about

Physical Aspect.—The province throughout its whole extent presents great diversity of feature, from the lofty alpine region on the east, to the low grassy plains in which it terminates on the west; while its coast of South Australia, in the meridian of line, indented in some parts by picturesque 141° E.; the western by a line bearing south bays and capacious havens, is in others monotonous in the extreme, a long tract extending between Cape Howe and Lake King, called by the colonists the "Ninety or Tasmania from Australia. The length of Mile Beach," being almost unbroken by the province from east to west is about 500 inlet or cove. But the peculiar charactermiles, the breadth from north to south istic of Victoria is the large proportion of about 250 miles, the coast line about 600 fertile, accessible, and comparatively level miles, and the area about 80,000 square miles ground comprised within its limits, not-

withstanding the mountain chains and thornty of Count Straelecki, we find the elevation by which it is traversed. whole territory is, generally speaking, well watered. The Murray, which rises in the Australian Alps, receives in its course various other rivers which flow over extensive plains n directions nearly parallel to its own, and rich land

central country, being thinly or partially wooded and covered with the richest pasnorthern and southern skirts of these hills, streams falling from them, and by the more presents very different features In 37° S otherwise too dry for an industrious and increasing people, by preserving in these abundant reservoirs the surplus waters of the large river; and indeed a finer country imagined."

from the Grampians, an elevated and isolated mass, presenting no impediment to a free communication through the fine country around its base. Hence the enormous labour necessary in order to obtain access to some parts, and for crossing continuous ranges to reach others, by passes like those so essential to the prosperity of New South Wales, may be in great measure dispensed with in Victoria. Towards the sea-coast on the south, and adjacent to the open downs between the Grampians and Port Phillip, there is a low tract of very rich black soil, apparently the best imaginable for the cultivation of grain in such a climate.*

Mountains. — The principal chain of mountains in Victoria, designated by Mitchell the Australian Alps, but known also as the great Warragong chain, or Snowy mountains, are a continuation of the dividing range (see p. 433) whose progress as far as Mount Kosciusko has already been with peaks, or low and crested only by the delineated. Commencing from that point, and continuing the description on the au-

ridges of various extent and considerable chain resuming a south-west direction, and The still maintaining a bold though less elevated outline. Its intricate branchings on either side, with their peaked summits, render the country rugged and sterile, excepting the neighbourhood of Lake Omeo, and a part of the Mitta Mitta valley, lying between the thus irrigate and fertilize a great extent of spur crowned by Mount Yabbara, and that surmounted by Mount Ajuk, a tract resem-Hills of moderate elevation occupy the bling a vast basin, without trees, and scantily supplied with water, but covered, even during a parching summer, with luxurious urage. The lower country, both on the pasture. The whole region westward of the chain, towards Western Port, is rent by is chiefly open; and on the south undulates narrow gullies, rendered well-nigh inaccessislightly towards the coast. The grassy plains ble, either by the steepness of the ridges by which extend northward from these thinly which they are flanked or the thickly interwooded hills to the banks of the Murray, woven underwood. Eastward of the chain, are chequered by the channels of many in the direction of Corner Inlet, the country permanent and extensive waters of deep lat., or about the sources of the river Thomlagoons, which are numerous on the face of son, the spurs are less ramified, and of these plans, "as if," says Sir Thomas considerable height and length, shaping the Mitchell, "intended by a bounteous provi- intermediate ground into beautiful slopes dence to correct the deficiencies of a chmate and valleys, which ultimately resolve into an open and well-watered plain, clothed with nutritious grasses, adorned with fine timber, and offering charming sites for farms or country residences. The spur which bounds for cattle stations than this can scarcely be the southern limit of that area, and another, which, on the western side of the chain, In the western portion small rivers radiate studs the territory of Australia Fclix, and the neighbouring district of Western Port, with some remarkable eminences, again change the face of the country, and constitute a broken inhospitable region, frequently unsupplied with water, and almost always ill furnished with either quadrupeds or birds.

> In the vicinity of Coroner Inlet (Gipp's Land), the chain of mountains dips under a low and marshy ground, above which its crest appears rising only at intervals. Ten miles beyond, it is seen again, erect, jutting out boldly into the sea, and exposing its granitic flanks for a length of thirty miles to the lash of the infuriated surf.

> At Wilson's Promontory, the sea interferes with the visible continuity of the range, but does not terminate its course, which in clear weather may be traced from the headland by the chain of islands in Bass's Straits. These islands, whether high and crowned white sparkling foam of the sea, appear, in their winding and lengthened array, like the glittering snow-capped domes of the

^{*} Mitchell's Expeditions into Australia.

Andes, when seen above the dense clouds country just as much as eye could wish."† which encompass their lower region.* The Mount Arapiles lies to the north-west of Australian Alps cover an area of about 7.000

square miles.

The Grampians form the leading features of the country westward of Port Phillipthey are a lofty and extensive mass comprising three ranges, and covering a surface be easily recognised, both by its isolated powhich extends latitudinally fifty-four miles. and longitudinally twenty miles. The extreme eastern and highest summit is Mount William, in height 4,500 feet above the sea. The most northern point is Mount Zero, in 36° 52′ 3″ S. lat. The most southern. Mount Sturgeon, in 37° 38' S. lat., rises 1.070 feet above the level of the plain, from which it springs like a perpendicular rock from the midst of the ocean. The most northern and elevated range extends from Mount William to Mount Zero, and 18 steepest on the northern side. From this hill the two other ranges branch off to the south, the western being named by Mitchell the Victoria range, and the eastern the Serra, from its serrated outline. On the slopes of the northern range are some forests of fine timber, but, in general, the higher summits are bare and rocky. Mount Abrupt, the south-eastern extremity of the Grampians, is 1,700 feet in perpendicular height; it contains a crater of 446 feet in breadth, the average depth being eighty feet. Mitchell describes the prospect he beheld from the summit as a truly sublime scene, the whole of the mountains quite clear of clouds, the grand outline of the more distant masses blending with the sky, and forming a blue and purple background for the numerous peaks of the range on which he stood, and which consisted of sharp cones and perpendicular cliffs foreshortened, so as to form one feature only of the extensive landscape, but composing a crescent nearly thirty miles in extent, this range being but a branch from the more lofty masses of Mount Wilham, which crowned the whole. The view includes a vast extent of open plains fringed with forests, and embellished with lakes. "Certainly," says Sir Thomas, with an enthusiasm very natural under the circumstances, "a land more favourable for colonization could not be found. Flocks might be turned out upon its hills, or the plough at once set agoing in the plains. No prifor all purposes of utility, and adorning the 300 feet above the plain, in the form of a tri-

Mount Zero. This mass, the western extremity of which has somewhat the appearance of a ruined fortress, consists of a sandstone passing into quartz. It occupies an area of about two square miles, and may sition, and by its small companion, the Mitre rock, situated midway between it and the lake to the northward, named Mitre lake, The highest summit of Mount Arapiles is 726 feet above Mitre lake.

Thirty or forty miles to the eastward of the Grampians is a granitic range called the Pyrenees, thinly wooded with very lofty timber, and grassy to their summits; they terminate, to the southward, in Mount Cole.

About fifty miles to the eastward of the Pyrenees is a range called the Bunningong, or Brisbane range, running north and south. and traversing nearly a degree of latitude.

The Mount Macedon range commences about thirty-five miles north-north-west of Melbourne Mount Macedon, properly so called, is one of the principal mountains in the province, clothed with trees (chiefly black butt and blue gum eucalypti), measuring from six to eight feet in diameter to its very summit, about 3,000 feet high, which is spacious, easily accessible, even on horseback, and covered, towards the south, with the tree-fern, musk, and other plants found at the Illawarra, New South Wales. Mounts Campbell and Byng are two conspicuous eminences to the northward, which, with Mount Macedon, form the figure of a triangle—the latter being the apex, the former marking the extreme points of the base line to the north-east and north-west.

Mount Hope (considerably to the north of Mount Byng) belongs to a group of low granitic hills, of which it forms the western extremity. It is composed of immense blocks of granite, and obtained its name from Sir Thomas Mitchell, who after several months spent in traversing the dead levels of the interior, hoped from its summit to obtain an extensive view of the region between him and the coast. How much the prospect exceeded his highest expectations, may be readily conceived, for the fair and fertile region he then beheld, was that which he afterwards meval forests require to be first rooted out designated Australia Felix. Pyramid hill, here, although there was enough of wood about six miles from Mount Hope, rises about

^{*} Strzelecki's New South Wales.

angular pyramid, and being quite isolated, from them with never-failing streams, and closely resembles the monuments of Egypt. enabled to support a continuous volume, Its apex is formed by a single block of whose strength is manifested by its having grante. To the northward of Portland bay forced a channel through a portion of the (in the county of Normanby) a range of in- desert interior, instead of spreading over considerable extent and elevation, called the extensive plains, or being lost among mo-Rufle Range, is chiefly characterised by its rasses, like several other northern streams lofty timber and numerous swamps. Along I have, I believe, elsewhere quoted the the coast, to the eastward of Cape Otway, is remark of Sir Thomas Mitchell, that "each a range called the Marrack hills, of which Australian river seems to have some peculiar comparatively little is known, from the im- character, sustained with remarkable unipenetrable character of its luxuriant vegeta-formity throughout the whole course" tion. Station peak, the highest point of the That of the Hume appears to consist chiefly Villemanata range, is a well known land- in the vast extent of alluvial margin, the lofty mark in the harbours of Port Phillip and trees, and still lakes, which form its leading every side, and is remarkable for its pictur- the extensive regions which it fertilizes and esque beauty.* Besides the chains above adorns. ranges, when viewed at a distance, is a deep westward or the northward. The first junchue is agreeably blended

toria are generally deeper and more con- forty miles further, a small stream named stant in their course, than those of the older the Kewa joins the main channel About colony, unless, indeed, we except the more the same distance beyond, is a low granite recently discovered streams in the northern hill named Mount Ochtertyre. Near this districts of New South Wales. The noble point Sir Thomas Mitchell describes the river which forms three parts of the eastern river as being bordered by so many lagoons, and northern boundaries of the province, is that he succeeded in obtaining a view of known as the Hume in the early part of it only with great difficulty, and after nearly its course, after receiving the waters of the an hour's ride. He found it, at length, Ovens' and the Goulburn, the Campaspé, running at the rate of two miles and-a-half the Loddon, and various smaller tributaries, an hour, and just beginning to overflow, it pursues a north-easterly course to its while the opposite bank consisted of a reedy junction with the Murrumbidgee, from and impassable swamp. which point to its sea mouth, Lake Alexandrina, in South Australia, it is called the from its sources, we find it receiving the Murray. † The earlier portion of its course Ovens, another of the streams discovered is that with which we are at present conduring the memorable journey of Messrs. cerned, and to avoid the repetition of the Hovell and Hume. two names-Murray or Hume-it may be rise in the mountainous district to the west well to speak of it, during this portion of of Lake Omeo, after its junction with the its course, by the latter appellation only River King, it becomes an important stream, The basins of the Hume lie in the deepest finely breaking up the dead levels of the recesses of the Australian Alps, and its im- surrounding plains The next junction with mediate tributaries having also their sources the Hume is formed by a river of consider-

* Recent information concerning Australia Felix, by G. Arden, Esq

† Several writers on Australia speak of this river by the name of the Murray only, and some confusion is certainly apt to arise in the minds of readers not rumbidgee, the distinction is a just and even a necesintimately acquainted with the subject, from its bearing different names in different places, yet this does

The mountain is accessible on features throughout the varied scenery of It has been crossed, at different mentioned, there are Strzelecki range in seasons and places, by Hovell, Hume, Sturt, Bass county, Western Port district, the Mitchell, Hawdon, and Strzelecki, and to Mamaloid hills, and other groups and de- the latter explorer we owe the knowledge tached mountains alluded to in the geological of its sources. It is worthy of notice, that The prevailing line of the mountain the Hume receives no tributaries from the grey; on a nearer approach every variety of tion of any importance, is formed by the Mitta Mitta River, itself the recipient of RIVERS.—The streams which irrigate Vic- Tallargetta and Livingstone creeks; some

Still, tracing the course of the Hume The Ovens takes its among the Snowy mountains, it is supplied able magnitude, which has been unfortunate not seem a sufficient reason for setting aside the designation given to it by its earliest discoverer. To those who agree with Dr Lang that the Murray is formed by the junction of the Hume and the Mursary one.

in receiving a variety of names. In the they fall in reality more than double that nious appellation of Bayunga signated, is a very fine stream. miles below this point, the high road between Sydney and Melbourne intersects the river, which during that distance has a the rocks, and the whiteness of the torrent medium breadth of from sixty to seventy rushing over them † yards, flowing through a fertile and populous floods, which supply extensive lagoons much frequented by aquatic birds. Sir Thomas Mitchell, in recounting his expedition of 1836, describes it as having a breadth of sixty vards, with a firm bed and banks, its mean depth (near the Deegay ponds) being somewhat more than two fathoms, and its velocity about one mile and 240 yards an hour. The length of its course is, according to Lang, about 200 miles, but it is elsewhere stated at above 400 miles. The land, up to its sources, is occupied by squatters, but near its mouth it is less settled, the soil being considered of inferior quality.

The Campaspé falls into the Hume about four miles above the junction of the Goulburn or Bayunga. It rises near Mount Macedon, and is joined at an early period of its course by the Barnard or Cohban,* a stream remarkable for the bold character of its scenery, and the abrupt and steep ravines through which it flows, the left bank consisting of undulating hills and lofty rocks of granite, the right strangely contrasting with it, by the perfectly level summits of the adjacent hills, which give to the whole the appearance of having been, at one time, in a fluid state. Some of these table hills are separated by dry grassy vales of excellent soil. Further back, the rugged crests of a wooded range of a different formation, render the level character of this ancient lava or vesicular trap more obvious. The rocky channel of the Barnard forms in one part a very striking cataract, the waters having a perceptible descent of above sixty feet, but

maps it appears generally marked as the height, in the lower part, however, the stream Goulburn, but there being another stream escapes unseen among large blocks of graof that name in New South Wales, it is nite. The picturesque effect of the waterstyled by some the Hovell, while others pre- fall of Cobaw is attributable less to the body fer its native, and certainly more eupho- of water falling, or the loud noise, than to The river, the bold character and harmonious grouping however, by whatever name it may be de- of the rocks over and amongst which it Rising falls. The prevailing shades are light red among the mountains to the north-east of and purple-grey, the rocks being finely in-Western Port, after receiving Broken River terlaced with a small-leaved creeper of the and several smaller creeks, it joins the Hume brightest green; a dark-coloured moss rein 143° E. long., 35° 19' S last. About 100 heves the vivid hues, while a brilliant iris, shining steadily amid the spray, blends into perfect harmony the lighter colour of

Loddon River, called the Yarrayne by district. The Bayunga is subject to high Mitchell, from the noble line of Yarra trees growing on the very brink of the stream, next joins the Hume, and waters in its course a large extent of fine country, between that river and the western side of the Mount Bunninyong range, where it has its origin. This stream has all the characteristics of a mountain torrent, being at some times (as when discovered, in 1836) of considerable importance, with an equal depth of about nine feet, and a current of nearly a mile and-a-half an hour, while at others it is little better than a rivulet next important junction with the Hume is formed by the Murrumbidgee, and has already been described in the account of the latter river (p. 444), and of the former, little more need here be said Throughout that portion of its course which we have just traced, the Hume, or Murray, maintains the character of a deep and rapid stream, exceeding at some points 400 yards in breadth, and offering a valuable means of internal communication. According to Mitchell, it carries to the sea a body of fresh water sufficient to irrigate the whole country, which is in general so level, even to a great distance from the river banks, that the abundant waters might probably be turned into canals, for the purpose of supplying natural deficiencies of water at particular places, or of affording the means of transport across the wide plains. The numerous and extensive grassy flats which border the river are attended, however, with one great disadvantage—the banks being frequently so steep and yielding as to render the water maccessible to cattle, who appear to shrink instinctively from the muddy margin.

+ See Mitchell's Expeditions into Australia.

^{*} According to Mr Ham's map of Australia Felix (1849), the Barnard or Coliban joins a channel by which the Loddon and Campaspé anastamose

The Yarra Yarra, though in itself secon- at six beyond the latter stream, the River dary in importance to several other rivers Plenty. These are all mountain torrents. of Victoria, all of which are, however, very inferior to the noble stream whose course much good land on their banks, although in through this province we have just examined, nevertheless claims attention, since on its banks stands the fair city of Melbourne. The Yarra Yarra rises in a gully between the Snowy mountains and one of the Goulburn mountains, about 100 miles east-north-east, as the crow flies, from Port Phillip, in 37° 46' S. lat., 146° 17' 30" E The originating spring is so small that it could run through a four-inch pipe; it is, however, soon fed by branch streams, some of considerable magnitude, from the adjacent gullies. There are several waterfalls at the head of the stream, one rising some hundred feet above the bed of the river. The country is of trap-rock formation; freestone and slate are to be found In various places the scenery (as described by Mr Hoddle, who explored it in 1844) is extremely picturesque. Towards the source of the Yarra Yarra, the surface was boggy, and the scrub so close that the explorers could only cut their way through it at the rate of half a mile a day. Farther down, the soil was good, but very heavily timbered, many of the white gum-trees measuring fifty feet in circumference, and 150 feet in height, the half to two chains in breadth, and eight or tree-ferns were more than twenty feet high. and the sassafras and myrtle grew luxurantly The "greenest of trees" occasionally and honeysuckle, studded portions of the a seed resembling black pepper in appear- with that of the bay, which, following the ance and taste. noticed, the fruit of which might be mistaken for the coffee-berry and plum. No aborigines were met with in the course of this natural barrier, and flow strongly up the the expedition, which occupied nearly four channel, its influence being felt for hours to This river disembogues in Hobson's bay, the northern extremity of Port town Phillip, it is navigable up to Melbourne for steam-boats and other vessels of light the Yarra Yarra, the high banks of the latter draught, by a tortuous course of seven are found to border occasional flats, or low miles. water at high tide four miles from Melbourne in a direct line, tions of its course from the above point, the although perhaps three times that distance river will be seen to be confined within its by the windings of the river, the Yarra Yarra deep bed at the foot of steep sandstone hills, receives, as a tributary from the northward, or somewhat elevated flats of honeycomb the Merri creek, at four or five miles far- land, sprinkled with trap boulders The valley ther, it receives the Darebin creek; and

rising in Mount Macedon range There is general pretty heavily wooded and thickly covered with rocks, which are all evidently of volcanic origin, and have been carried down by the torrents from the extinct volcanoes of that part of the territory. soil is a rich black mould, well adapted for the growth of the vine and other descriptions of European fruit-trees There are many small farms, in this part of the country, in a highly creditable state of cultivation; and the situation of some of the villas, both on the main river and on its tributary streams or creeks, is romantic and beautiful in the highest degree *

A very interesting account of the lower course of this river is given in an official document written by his Honour C. J Latrobe, the Superintendent of Port Phillip. The source of the river had not then been ascertained, although the Superintendent rightly surmised that it would be found "among the offsets of the Snowy Alps to the eastward." Up to the furthest point to which it had then been surveyed it presents pretty much the uniform character of a constantly flowing stream, from a chain-and-aten feet in depth, sunk in ordinary seasons beneath abrupt and wooded banks approaches the vicinity of Melbourne and its varied the scene; box, stringy bark, some-estuary, it is traversed by dykes of trap or times iron bark, black and silver wattle, ironstone, the most elevited and striking of which occurs at the head of the basin at country. One very pretty shrub abounded, it Melbourne. At this point, in ordinary had smooth leaves, and produced, in bunches, times of the tide, the fresh water mingles Two other trees were also lower bends of the river, is nine miles distant. In dry seasons, before the dam was built, the high tide would frequently pass the distance of perhaps a mile above the

Below the point where the river Plenty enters The bar at its mouth has nine feet undulating tracts of various extent, composed At the distance of of very rich alluvial soil; in the other por-

* Lang's Phillip's Land

of the Yarra Yarra, properly so called, may and others, and joins the Yarra Yarra four be said to terminate at Melbourne. At this miles above its embouche in Hobson's Bay. point the bluff land retires on either hand and gives place to a wide tract of country, composed partly of low marsh, but very Water river take their course to their juncthe low land for many miles.

heavy floods, which have occurred at every season of the year, in the height of summer and the depth of winter, as well as in the spring. That of 1844 was a very serious one The river had been swollen by the usual equinoctial rains above its ordinary height, for some days previous to the night of the 2nd October, but it then rose for a few hours with a rapidity so unexpected, and with such short warning, that even after the flood had gained the opening below the hills, and consequently found room for its extension, the water rose so high, and poured down towards the bay with great rapidity, and in such a volume, that it was with difficulty that the people inhabiting the river banks a mile below the basin could be withdrawn from danger. Up the river, above and below Heidelberg (a village about seven miles from Melbourne), where there are many rich alluvial flats, the stream appears to have overflowed its high banks and covered the low cultivated ground on every side to the depth of ten, fifteen, or even twenty feet In parts where it was shut in by the hills on either side, it flowed on with great velocity with a mean height of thirty feet and upwards above the ordinary level; and reaching the more open country in the western slope of the northern Grampians, vicinity of and below the town rose in the bed of the river to seven or eight feet above the usual level, and in the course of a few hours covered the whole of the lower ground to the foot of the bluffs in every direction to a mean depth of two or three A simultaneous rise in the tides, caused mainly by the strong southerly gales, converted the whole of the lower country, from Melbourne to the Salt-Water River, into a wide lake.

The Marriburnong, or Salt-Water River, has its sources in the mountains south of Mount Macedon; it is fed by Deep creek

Barwon river, on whose northern bank the town of Geelong is built, rises in the high barren ranges near Cape Otway; waters, slightly raised above the level of the high in its circuitous course of upwards of 100 tides, and partly of low undulating sandy miles, a splendid tract of country, and emprises, through which the Yarra Yarra and Salt- ties itself into the ocean by Lake Conewarre. a few miles to the westward of the entrance tion with the ocean. From the whole of this of Port Phillip. The mouth of the Barwon level the sea has doubtless retired, leaving is only navigable for boats entering in very the original coast line exceedingly well de- fine weather. The Barwon, near the foot of fined in the steep scarped banks which bound some low hills called by the natives Barabool. falls some height over a rocky shelf, forming The Yarra Yarra is subject to occasional a pretty waterfall, and at a little distance may be found meandering silently between grassy flats. A few miles to the south-east of Barabool hills the river communicates with a large lagoon; "after which," says Captain Stokes, "I was informed there was only a depth of three feet, and a width of one-eighth of a mile. The Barwon is therefore not available for water carriage to the town of Geelong, even if its entrance were better protected"

Moorabool River rises in the Boninvong or Brisbane range, and joins the Barwon at Geelong. There is much good land on the Moorabool, both towards its source and towards its mouth. The declivities of the valley of this river, as also the singular sloping treeless sides of the Barabool hills, are described as appearing to have just emerged from the sea, which had, as it were, scooped out their hollows and smoothed their sides."*

Native creek also joins the Barwon from the northward, with which another more important junction is soon after made on the same bank by the River Leigh. This stream rises to the north of Mount Boninyong, and divides the county of Grant from the Portland Bay district.

Glenelg River issues from a gorge on the and pursues a due westerly course for about fifty miles, to within twenty-five miles of the western limit of the province. It then takes a southerly bend, entering the territory of South Australia a few miles from the ocean, but, quickly recrossing the boundary line, disembogues a mile or two to the eastward of it in the deepest part of Discovery bay, 38° 2′ 58" S. lat., 141° 2′ 9" E. long. Tyers states that the mouth of the Glenelg cannot be made available as a harbour; for independently of the heavy breakers on the bar, the accumulation of sand is sometimes * Discoveries in Australia, by Captain Stokes, R.N.

shores of the entrance as completely to sepa- some caves from forty to fifty feet high, and rate the river from the sea, and moreover of the same depth, the ceilings were encrusted the basin, through which it flows imme- with stalactites, and the entrances overlooked diately before its entrance into the ocean, some pretty fresh-water lakes, three miles in has a depth of not more than two or three extent, separated from the sea by a narrow Beyond the basin the river ap- chain of sand hills pears to be of considerable depth, but the southernmost point of the promontory, which banks are chiefly limestone cliffs, for the shelters Portland bay on the eastward, is in most part about 100 or 200 feet high, and 38° 24′ 15" S lat, and 141° 34′ 15" E. long. steep; the water is brackish for several miles, and the land indifferent, being a mere from east to west, and ten from north to sand, covered with thick scrub, vines, and south. forest.* Higher up on the Glenelg, the country is of a very different description. Sir Thomas Mitchell, who came upon this river at an earlier portion of its course, ing ground (mud with a coating of sand) in speaks in the highest terms of the "beauty from four to seven fathoms, towards the and substantial value" of the adjacent country. "It seems," he says, "that the land was everywhere alike good, alike beautiful, winds, but exposed however to those from all parts were verdant, whether on the finely the south-east, which prevail during the varied hills, or in the equally romantic vales, summer months. Two small rocky islets, which seemed to open in endless succession called Lawrence Isles, lie off the point formon both banks of the river." In 37° 30' S. lat the Glenelg receives the Wando, a tributary from the eastward: farther south, in about 37° 40' S. lat., it is joined by the This latter stream rises on the eastern slope of the Grampians, then winding round the southern extremity of the mountain range, strikes off towards the fine country on the westward, and after receiving several tributaries from the southern and western Grampians, is joined by the Grange Burn, forty miles to the westward and at length, about twenty miles farther west, falls into the Glenelg some forty miles inland from the mouth of the latter river. Between the junction of the Wannon and the sea, two small streams, named the Crawford and the Stokes, flow into the Glenelg from the eastward

the chief streams of Victoria (not already mentioned), which have their embouche in the ocean, trace also the leading features of the coast-line proceeding in an easterly direction to Cape Howe.

of the coast, and affords no shelter to shipping beyond that of a mere roadstead. Cape Bridgewater, its eastern extremity, is a hummocky cliffy-faced point of land, separated from the main by a low neck

so great between the eastern and western Four miles to the north of this point are Cape Nelson, the

Portland Bay extends twenty-six miles The most northern portion of its shore is comparatively low, but the western portion consists of bold cliffs rising to the height of 180 feet. There is excellent holdwestern shore, where the anchorage is completely sheltered from the south-westerly ing the south side of the bay, and a much larger one named Lady Julia Percy's Isle (known among the whalers as Julian Island) hes off its eastern shore

The rivers which fall into Portland bay are - the Surry, which disembogues in 38° 15′ 43″ S. lat, and about 141° 56″ E long; the Fitzroy, a more important stream, with much good land on its banks, and the Shaw and Eumerella, which unite immediately above their junction with the ocean The channels of both these streams are merged, for a time, in extensive swamps

Moun River next falls into the sea at Port Farry, a small and not very secure harbour (38° 22′ S lat., 142° 16′ E long), chiefly valued as a whaling station. The entrance is open, and affords but insufficient shelter Leaving the Glenelg, we may in noticing for the anchorage, during the winter, however, which is the calving season of the whales, the prevailing winds come off the The town of Belfast is built on the land shore of this bay, at the mouth of the Moyn.

Lady or Merri Bay, about twenty miles Discovery Bay is a long open indentation east of Port Fairy, is mentioned by Dr. Lang as a small but superior harbour, but other writers appear to consider it merely an open roadstead It receives the Merri and Hopkins rivers; the former of these is a small and unimportant stream; the latter rises near Mount Cole, in a range sometimes called by the same name as the river, on the south-western face of the Australian Pyrenees, thence it pursues a southerly

^{*} Report of an Expedition to ascertain the position f the 141st degree of east longitude, &c By C J Tyers, surveyor. Colonial Government paper. Sydney 1841.

course of at least ninety miles, and falls the land, and the current sets to the southinto the sea at the town of Warnambool Both banks of the Hopkins* are occupied by squatters the whole way down, the country being of excellent quality. The land. towards the upper part of its course, is best adapted for pastoral, and that on the lower portion, for agricultural pursuits. The Hopkins receives several tributaries. About ten miles from the coast. Taylor's River. or the Caranbalac, falls into it over a precipice of forty feet.

The coast line between Lady or Merri bay and Moonlight head is little known, and its weather-beaten shores are deemed dangermiles east of that cape, describes it as bold, -skirted by perpendicular cliffs of 500 night or at ebb tide. having numerous bays, which afford excelall but due easterly winds.

entrance to Bass Strait. It is, therefore, a perof fine white sand of Australia, at a considerable distance from extremity. +

* The desire of offering a tribute of esteem to an old brother officer, appears in this instance to have completely triumphed over the love of appropriate names and sweet sounds, usually manifested by Sir Thomas Mitchell in the numerous instances in which the task has devolved upon him of finding designations for hill and valley, mountain and stream. Judging from his general rule, we may fairly infer that could he have ascertained the native name, he would have gladly retained it, and saved this fine stream from a patronymic which, but for the associations connected with it, would most assuredly sound in the ears of Sir Thomas himself common-place and distasteful in the extreme

† Port Phillip is now visited by vessels from India, China, and other places, where instructions for the guidance of mariners may not be readily obtainable

ward.

Port Phillip was discovered by Lieutenant Murray, R.N., when commanding the Lady Nelson, New South Wales colonial brig, in January, 1802, and was shortly after visited and surveyed by Captain Flinders, in his Majesty's ship Investigator. The entrance is scarcely two miles in width, but within. the port expands into a capacious haven. The heads are forty miles from the innermost anchorage, off Melbourne, situated at the north side of the bay, which has a breadth varying from twenty to sixty miles. and includes an area of not less than 875 ous and impracticable. On the latter point square miles of water, capable of holdthe erection of a light-house is in contem- ing in perfect safety the largest fleet of ships plation, as also on Cape Otway, the southern that ever went to sea. The entrance is extremity of the curved coast-line extend- narrowed by rocks lying off Point Nepean ing between the mouths of the Hopkins and (in 38° 18' S. lat, 144° 30' 30" E long), the Barwon, which are 100 miles apart, or and by shoals on the opposite headland. 150, following the coast-line. Mr. Smythe, It is, however, deep enough to admit who surveyed the shore for a distance of vessels of any size at low water, and may about seventy miles, namely, from fifteen be safely entered at flood tide, which rises miles west of Cape Otway, and fifty-five six feet. Masters unacquainted with the harbour, should not attempt to enter at There are numeto 1000 feet elevation above the sea, and rous sand-banks about the middle of the harbour, which break the force of the sea lent anchorage, and are well protected from when the wind is from the south, and afford a smooth anchorage near Melbourne; the King's Island, thirty-four miles from Cape eastern passage to which, along the bay, is Otway, forms the southern side of the western the deepest and safest. On the western The Harbinger side of Port Phillip, a branch or arm exreef runs about four or five miles off the tends into the land in a west-south-west northern extremity of the island; and the direction for about fifteen miles, and has an channel between that reef and Cape Otway entrance of about six miles wide; it is called is twenty-nine miles wide, with soundings Geelong harbour. A small basin at its upper end communicates with the larger one feetly safe ship-channel; I beat through it by a narrow navigable channel. Geelong in a large vessel during the night. There harbour runs nearly east and west, and are soundings along the whole south coast there is secure anchorage at its furthest

> One vessel from Hong-Kong was recently lost at the rather difficult entrance of this immense harbour. Commanders of ships having on board this work on the British Colonies would expect to find sailing directions for entering new havens, I therefore subjoin an abstract of the Directions for Entering Port Phillip, as laid down by Captain W. Hobson, R.N., of H.M.S. Rattlesnake, who made a running survey of the port. Captain Hobson says that-

> " In approaching Port Phillip from the westward, the entrance cannot be distinguished until Point Nepean bears N.NE; then you open Shortland Bluff, and obtain a view of the Estuary But the position of the entrance is easily determined by its situation with respect to Mount Flinders to the westward, and Arthur's Seat to the eastward Flinders is a small flat topped hill at the extremity of

The principal features, on entering the described, and the Werribee and Little river bay of Port Phillip, are Arthur's Seat, Sta- alone remain to be noticed. tion Peak [Youang], and a bluff in the Werribee River is a small fresh-water north-east, called Dandonong. Youang is stream, having its origin in the high range abruptly out of a low plain on the west side of the bay. Arthur's Seat forms the north extremity of a towering range, declining at Cape Shanck.

Of the rivers which fall into Port Phillip. the Yarra Yarra and the Salt Water river, the Barwon and the Moorabool, have been the low hand; it makes like an island, and bears W IN from Point Nepean Arthur's Seat is the highest land on the coast westward of Western Port . from the southward its north-west extremity appears precipitous, it slopes to the south-east, and its summit bears E & S from Point Nepean, which is situated on the eastern side of the entrance, at the extremity of a peninsula, which slopes gradually from the base of Arthur's Seat, at one-sixth of a mile N W by W from the Point is a low rocky islet, connected with the shore by a reef, which dries at low water, even in calm weather the sea breaks on it with considerable violence Point Lonsdale, on the western side, is a low point jutting out from a dark rocky cliff, from which a reef runs two cables' length to the eastward, which a reef runs two capies rengen to and forms the southern extremity of a bay that terenter Port Phillip a fair wind or a flood tide is indispensable, with a fair wind keep in mid channel between Point Nepean and Point Lonsdale, and steer in for Shortland Bluff until Point Nepean bears S E by S, then shape a course as hereafter directed for the channel through which you mean to pass, with a beating wind do not approach Point Lonsdale nearer than a quarter of a mile, and be careful to avoid a sunken rock which lies N W by W, two cables' length from the rocky islet off Point Nepean The soundings across the entrance are very irregular, varying in one cast from seven to twenty-four fathoms, and again suddenly shoaling to five or six On the edge of the reef of Point Lonsdale is a depth of five fathoms close to the rocks, and the same depth on the southern edge of the reef that extends from Point Nepean to the rocky islet. The tide in the entrance runs with considerable force in the height of the springs. From its impetuosity, and the irregularity of the bottom, a rippling is created which in rough weather would render it very unsafe for an undecked vessel to pass through, and presents to a stranger so much the appearance of breakers, that it requires good nerve to venture on If the wind should be light, care must be taken to get into the fair way before you come too near the reefs, as the flood tide sets across them towards the entrance of the port, with great strength. As the entrance is only contracted by projecting points, with a favourable tide or a fair wind, you are soon within them, and then if you are desirous to anchor, a good berth may be found any where between Observatory Point and Point King, within half a mile of the shore, in seven fathoms, clay bottom

"When bound through the Western Channel, take care to avoid a little shoal called the Pope's Eye, on which there is only twelve feet. The following marks will place you exactly on it. Swan Point N 1° E

one of a small cluster of lofty peaks, rising between Mounts Boninyong and Macedon. and its embouche midway between Melbourne and Geelong In seasons of drought (such as the summers of 1845 and 1846), it gradually, on the east shore, to the coast is little more than a succession of deep pools, with scarcely a perceptible current. but in winter it becomes a large and rapid river, and has been known to rise twelve feet in a single hour. At an early portion of (mag) Mount Eliza, summit on with north end of the flat island If bound through the Western Channel, pass to the westward of Pope's Eye, by keeping Swan Point to the northward of N. 3 E, until Shortland Bluff bears W 1 S, and steer for the entrance of the channel which hes between a shoal that commences two cables' length to the northward of Swan Point and the west bank, to clear the bank off Swan Point, keep Point Lonsdale just open with Shortland Bluff, until Swan Point bears N & W., the course then is N N E, and midchannel will be preserved by keeping Point Nepean a finger's breadth open with Swan Point, the soundings are from four fathoms at the centre, to a quarter less three at the sides, from which the banks shoal suddenly to five or six feet, and in some places dry at low water, when Station Peak is seen over the north red cliff, bearing N 72° W, you are clear to the northward of the banks, and will be in seven fathoms water. In approaching from the northward, bling Point Nepean open with Swan Point before the north red bank bears N 72°W, and follow the leading marks This channel has now a buoy marking the entrance on the edge of Pope's Eye, two more on the edge of the shoals on either hand, and a fourth on the Swan Spit In beating through, you must be guided by the eye on the eastern side when the shoals show themselves very distinctly, and take care not to shut the marks standing to the westward, at all times, it is advisable to keep a person aloft, whence the shoals may generally be distinguished. The tide runs from two to three knots per hour, and follows the direction of the To pass through the south channel when channel fairly within the port, keep along the south shore, at a mile distance, in nine or ten fathoms water, until abreast of Point King, from which situation an E by S course, with very slight deviations, will carry you through It is impossible to find any leading mark for a channel so long, and in some places so narrow, that is not more liable to perplex a stranger than to guide him The only certain measures of navigating it, until regularly buoyed, is by the eye from aloft, and when the weather is too hazy to show the banks The soundings in the it is not safe to go through south channel are very irregular, from sixteen fathoms to five, and close to the edge of the banks, from that to three, two, and one fathom Although the deepest water is to be found in this channel, it is not to be preferred by vessels drawing less than sixteen feet water; the absence of any leading mark, and its great length, being a great objection The harbour-master in a late government notice, has declared this passage to be impracticable, from the shifting of the sands. The south sand that commences near Point King, forms the south side of the channel, its eastern end

its course, about two miles from Ballan, the Wernbee forms a wide deep basin, bounded on all sides by basaltic columns; and above this basin the stream flows over a basaltic pavement of somewhat the same character as the famous Giants' Causeway, in Ireland; but the blocks are less regularly formed.*

Little River rises to the north or northwest of a low range called the Anaki hills, and falls into Port Phillip a few miles to the southward of the Werribee. Near its sources there is some good land, but towards its mouth are extensive plains of ferruginous sandstone.

Port Phillip is divided from Western Port by a low promontory, of which the southwestern extremity is *Cape Shanck*, a narrow projection of calcareous formation, immediately off which lies a rock named, from its striking resemblance, *Pulpti rock*.

Western Port, discovered by Mr. Bass, in 1798, and so named by him from its being the limit of his explorations to the westward, from Sydney, is a fine harbour, situated in a wide and deep inlet (38° 15' S lat,

bears S W $\frac{1}{2}\,S$, (mag), from the white cliff, and to the eastward of that, deep water extends close to the shore.

"The northern side of the channel is formed by the middle ground, the western end of which bears N 1 E (mag) from Point King, and extends seven miles eastward when Station Peak is on with Indented Head bearing N.W. by W. (mag), and White Cliff S.W. by W. $\frac{1}{3}$ W., you are clear of the middle ground, and may steer to the northward. Symond's Channel may be made available in N or NW winds, when unable to fetch through the western channel, but is not recommended for any but small vessels until it The Pinnace Channel is only suitable for small vessels, the deepest water will be found close along the edge of the great sand. To pass clear of the shoals to the northward, keep Station Peak on with the extreme of Indented Head, and do not shoal the water under nine fathoms From the edge of the bank over the area of Port Phillip, to within a mile of the shore, there is deep water every where, with the exception of the Prince George Bank off Indented Head, and in running and beating towards Hobson's Bay, at the northern extremity of the port, there is nothing to apprehend Steer in for Point Gellibrand and pass it at two cables' length distance, taking care in so doing not to shoal the water under five fathoms, and to anchor when you bring Point Gellibrand to bear S.S W. in four-and-a-half fathom water, small vessels may bring it to bear south in two fathoms A light-house is now erected on this point, which will at night direct strangers to the anchorage, independent of the lights of the town and numerous shipping If you are bound into Geelong harbour from sea, be careful to give a berth of at least two miles from Indented Head to avoid the Prince George Bank, which extends from it in a N E. direction In rounding the shoal on the east and north sides do not shoal the water under seven fathoms until Point Richard bears W. by S., you may then haul up for Point Henry.

145° 30′ E. long.), containing two great bays, the inner one being a circular basin of about eighteen miles across, with an island, called *French Island*, of about twelve miles in length and six in breadth, in its centre, which thus divides it into an eastern and a western arm. Another island, called *Phillip* or *Grant Island*, of about fifteen miles in length, stretches across the outer bay, almost from point to point, and effectually shelters the harbour, leaving a wide and well-protected ship channel on its western side, whilst on the eastern the passage is narrow, and fit only for boats and small vessels.

This harbour† presents one very curious feature, namely, a sort of canal or gut in the mud flats that front the eastern side of Grant Island. Its depth varies from six to seven fathoms; the width is half-a-mile. The chief, if not the only danger to be guarded against in Port Western, appears to be a sandbank, lying in the centre of the channel, four miles within the entrance.

Phillip Island consists of an unvaried strata of vitrified sandstone and clay. The

"Do not approach the northern shore nearer than one mile, and in passing Point Wilson keep Point Henry to the westward of W by S (mag), one mile east, or E by S. from Point Henry, there is tolerable good anchorage On the bar at the head of Geelong harbour you cannot ensure more than seven feet at high water, at a cable's length within the bar there are five fathoms, and the depth may be carried close up to the shore; the rise and fall of the tide does not exceed four feet in any part of the port, and more commonly it does not rise beyond two feet six inches on the springs both the time of high water and the extent to which it rises are greatly influenced by the wind; the force of the tide through the channels leading to the north from the mouth may be estimated at from two to three miles per hour, in the south channel it runs with less force, and in the wide expanse northward of the banks it is scarcely perceptible. When it acquires its greatest strength it is not safe for any open boat to venture out, but it is easy to conceive the rapidity with which it must run to raise the level of 875 square miles of water four feet by means of so small an em-bouchure"

* Phillip's Land, by Dr Lang.

† In proceeding from Port Western to Port Phillip very extraordinary soundings were ascertained by Captam Stokes, in H.M.S. Beagle. About one-third of the way across from Grant Island to Cape Schanck, seven miles from the latter, the depth was ascertained to be seventy fathoms, on a gravelly bottom. The same unusual depth was likewise found by a single cast of the lead, three miles south of Cape Wollami, with the same kind of gravelly bottom, or a very fine kind of shingle. In the latter instance, there were on either side thirty-nine and thirty-three fathoms fine sand and shells. This depth is the greatest within the strait.—(See Voyage of H.M.S. Beagle, by Captain Stokes)

western half of its southern side is formed wild forest country, through which this by a line of cliffs, from one to three hun-stream takes its course, is hemmed in on the dred feet in height. A remarkable pyramidal rock marks the point where they terminate, after which a long range of low hills, covered with scrub, stretches to Cape Wollams, a helmet-shaped headland, rising abruptly from the sea to the height of 480 feet. This cape, situated at the southeastern extremity of Phillip island, is a very conspicuous object, the rest of the island. with little exception, being covered with low hills, thickly clothed with the tea-tree, scrub, and vinous plants. On the northern side of the island are several small lagoons or waterholes, situated a little distance inland, which contain pure water The anchorage from the signal-post to Elizabeth cove affords complete shelter from south and south-west gales The soil of French island is of a superior description to that of Phillip island, and on its shore is found freestone resembling the celebrated Portland stone, which rises in large perpendicular masses. The water near those cliffs is of sufficient depth for vessels of any size to anchor alongside. The upper land has for its principal trees, stringy bark, gum, and "she oak" The lowlands are impassably covered with mangrove and tea-tree

The mainland shores of both the inner and outer bays are very rugged, and are broken in many places by the channels of small streams, of which, however, only one, Bass River, has received a name; and in the useful and carefully compiled map of Australia Felix, published in 1849, by Mr. Ham,

there is not even this exception

Leaving Western Port, we follow the coast line in a south-easterly direction, to Cape Patterson, a low point covered with scattered sand hillocks, which marks the commencement of a deep bight, in the centre of which a tongue of land, somewhat similar in shape with fresh water. and direction to that constituting the southern boundary of Port Phillip, forms a bay, or rather lagoon, called Anderson's Inlet, of about fifteen miles in diameter, into which the Tarwon River flows from the north. The

* A rock called Crocodile rock, in 39° 21′ 30′ 5 lat, and 4° 41′ 45" west of Sydney, lies in a line midway between the western extremities of Rodondo and Curtis islands, nearly nine miles from each is a smooth round-topped granite boulder, just protruding above the surface, and in fine weather the sea runs over it without breaking The depth being forty-three fathoms close to it, if the waters of the strait were drawn off, the shape of it would be that of a column nearly 260 feet high.-Stokes' Discoveries ·n Australia.

north, east, and west by the Strzelecki range and its branches,—the native name is Tangel, and there are said to be large open plains to the north-east, abounding with game.

Cape Liptrap, in 38° 55' S. lat., 145° 57' E. long., marks the southern extremity of the curve in which Anderson's inlet is situated, and the commencement of another equally striking. Cape Liptrap is twentyfour miles distant from Wilson Promontory, and the shore receding between these two

points, forms a bay nine miles deep

We now arrive at the majestic headland which forms the southern extremity of Australıa Wilson Promontory consists of a lofty mass of hard granite, twenty miles long by six to fourteen wide, its lofty summits rising to a height of 3,000 feet, are at most seasons of the year enveloped in a cloud of grey mist Sometimes, however, the bold outline of the mountains is reheved against a clear sky, and their highest peaks catch the first rays of the morning sun as it rises from the southern ocean promontory is connected with the main land by a low sandy isthmus, which is described as bearing the appearance of having only recently been left dry. Several clusters of small islands, namely, the Glennie, Cleft, Rodondo,* and others, he immediately off the west and south shore of the promontory; those known as the Hogan group, are situated to the south-east, the largest of them (in 39° 13′ 14" S. lat) is about a mileand-a-half in extent Captain Stokes, who landed upon it in 1842, when surveying Bass Strait, found a number of dogs left by sealers, that had become quite wild, and some fur seals in a cave on the south-east point On the north-east is a boat cove sheltered by two small islets, and provided

Cape Wellington, the eastern projection of Wilson Promontory, forms the north point of a wide and spacious bay, called by Captain Stokes, Waterloo Bay, + from H.M S. Beagle having anchored there on the anni-

† The following extract, quoted by Dr Lang, from the Port Phillip Patriot (the date of which the doctor does not state), evidently refers to the inlet described above, on the authority of Captain Stokes, as Waterloo bay. "Lady's bay is a small securelysheltered cove, with a depth, in many places, of from seven to eight fathoms water, on the eastern side of Wilson promontory, about four or five miles from its extremity. It was named by Captain Wishart, who discovered it, after his vessel, the Lady of the Lake. Lady's bay is so free from dangers that the

versary of that victory. There is no good navigable a mile or two within the entrance, Waterloo bay.

first sandy beach that opens north of the coast is intersected by numerous creeks. former. The scenery of Refuge Cove is quet sand beaches, the dense forests reaching to the water's edge, the mist-capped hills. called to his recollection that land of storms.

On the north side of Refuge Cove is the Sealers' Cove of the old charts, a small deep bay, open to the east. The trees on the south-west side are large, measuring eight feet in diameter, affording shade and moisture to tree-ferns, and an undergrowth of various kinds, and supporting on their branches a profusion of creepers which, interlacing, form a canopy resembling latticework.

Corner Inlet, an extensive basin, situated in the deep angle between Wilson promontory and the main land, has a bar extending off Port Albert. it six miles from the entrance, on which there is water for vessels drawing from sixteen to eighteen feet. Captain Stokes speaks of it as a "great useless sheet of water, only

mariner, in entering, might touch the rocks with his vessel's broadside, and still float in six fathoms water. The shores are rocky, exceedingly steep, and covered with dense impenetrable scrub; the rocks are principally of grante. Good water is to be obtained in this locality. The bay, too, has the usual character of unfrequented harbours on this coast, abounding with fish."

anchorage between it and the south end of and that chiefly on the northern side, the the promontory, from which it is four miles rest being occupied by mud flats." A very distant. The depth in the centre of Water- different opinion was however expressed conloo bay is twelve fathoms, muddy bottom. cerning this inlet by its discoverer, Captain At its head lies the low valley three miles Lewis, the harbour-master of Port Phillip, in length, which stretches across the pro- who states that he "never entered a finer montory and forms a very conspicuous break harbour," and adds that on entering it, keepin the high land. On the northern side of ing the promontory close on board, there it, the lofty and wooded crest of Mount were not less than three fathoms between Wilson rises abruptly. On the southern is the reefs: no bottom was found at twenty a ridge strewn over with immense boulders fathoms, nor for a considerable distance up of granite. A rivulet winding amid the the harbour. A group of islets named from valley below, falls into the sea at the north their utility Direction Isles, lie a few miles end of a sand beach, forming the head of outside the bar. Close to the promontory, and about seven miles from the entrance of Refuge Cove, to the north of Waterloo Corner inlet, is a small islet called Rabbit bay, is so named from being the only place Island, from the numbers of these animals a vessel can find shelter in from the east- found there, the progeny of a pair turned ward, on this side of the promontory. This loose by a sealer about ten years ago. Over small cove, which is only a cable wide at the north shore of Corner inlet is a woody its entrance, may be recognised by Kersop range, the summit of which, Mount Fatigue, Peak, which rises over the south part, and is 2,110 feet high. A small stream called from its lying between Cape Wellington and Franklin River falls into Corner inlet from Horn Point, and also from its being the the north, and thence to Port Albert the

Port Albert is situated about fifteen miles said to resemble that of Tierra del Fuego; to the eastward of Corner inlet, in 88° 44′ S. and Captain Stokes states, that the smooth lat., and 146° 41' E. long. It is a valuable harbour, available for vessels of 200 tons. The entrance is said to be rather intricate and the gusts that swept down the valleys and circuitous, but not dangerous to those and roared through the rigging, forcibly re- at all acquainted with the channel. "It has this special advantage," says Dr. Lang, "that when it would be unsafe-as I suspect it would in a violent south-easterly gale-to attempt the channel, there is shelter for vessels close at hand, between Rabbit island and the mainland of Wilson promontory."

> Albert River and Tarra River fall into this port. Both these streams originate in thickly timbered ranges, about twenty miles inland. On the banks of the latter river the rising town of Alberton, the embryo capital of Gipps' Land, is built. Several islands, of various forms and sizes, he off

> Vessels bound to Alberton usually pass through Shallow Inlet; but the water being so shallow as to break across the entrance, if there is any swell, it is considered more prudent to enter by Corner inlet, and take the second opening on the right within the entrance.

> Tracing the coast line from Alberton, first in a south-east and then in a north-east direction, we find it presenting few remarkable features. Occasionally it is broken by

flanks of the Snowy mountains, of which Merriman's Creek is one of the largest; but there is little to deserve especial notice until we arrive at a series of lakes or lagoons, connected with each other, and running parallel to the ocean, with which they communicate by a narrow and unfortunately, not navigable channel. The largest and most westerly of these, Lake Wellington, contains fresh water, and is about twenty miles long, by about ten broad. It is joined to Lake King by a central and narrow lake, assuming towards Lake Wellington the character of a river. Lake Reeve, situated between the central lake and the sea, has a length of about eighty miles, opening into Lake King at its eastern extremity. The depth of water in mid-channel is twenty feet, and in some places this depth is maintained right across from land to land, but in others there are shallows and banks on either side. Into these lakes various rivers, all of which take their rise in the southeastern face of the Snowy mountains, or rather on the eastern side of the dividing range, disembogue, - Latrobe River and the Dunlop or Avon falling into Lake Wellington, Providence Ponds into the central lake, and the M'Arthur or Mitchell, the Riley, and the Tambo into Lake King According to Dr. Lang, the Latrobe is navigable for thirty miles from its embouche, the M'Arthur for twenty, and the Tambo for ten; but they have each a bar, carrying seven feet water, at their mouths. The Latrobe is much the largest of the three, and forms the general receptacle of the streams that rise on the eastern side of the dividing range for nearly a hundred miles, as well as of those that rise on the northern side of the coast range. Its principal tributaries, among which are the M'Alister and the Barney, originate in lofty mountains, of which the highest peaks are covered with perpetual snow: and therefore, they are not mere torrents, but perennial streams *

After leaving Lake King, the coast-line becomes exceedingly monotonous, and continues so during the long tract extending towards Cape Howe, called the Ninety-mile beach, which has, I believe, not yet been

surveyed.

Tyers, an interior lagoon, twenty miles from which the coast is broken by the impetuous torrent carried to the ocean by

* Phillip's Land, by Dr. Lang.

streams descending from the south-eastern the Margalong or Snowy River. This stream rises in the Australian Alps, traverses the western portion of Monaroo plains, then pursuing a southerly course, dashes along its rocky channel from precipice to precipice, forming in its rapid descent many splendid waterfalls.

Jenoa River falls into the ocean at an inlet, a few miles west of Cape Howe.

Gabo Island, on which it is proposed to erect a lighthouse, is situated about a quarter of a mile from the sandy spit of Cape Howe. This isle is a mile and-a-half long, by three-quarters of a mile in breadth; it has a basis of solid rock, with some grassy land, and springs of fresh water. The highest part is 158 feet above the level of the sea. On the north-west of the island is a bay named Santa Barbara, where vessels not exceeding 100 tons may find shelter from south-east and south-west gales Tenders have been issued by government for the construction of a light, as recommended by Mr. Tyers, which would be very advantageous to the coasting trade, and to all vessels navigating the south-east coast of Australia.

We have now traced all the rivers of any importance which fall into the ocean, as we had previously done those which through different channels unite their waters with the Murray or Hume; a few streams, however, still remain unnoticed which flow inland, and pour their waters into interior lagoons, or (like some of the streams in the older province) spread themselves over extensive marshes.

Of these the most remarkable is Wimmera River, which originates near Mount Cole, in the Pyrenees, thence pursuing a shallow and tortuous course for about 200 miles, through a region of sand and heath, succeeded by jungle and mallee (eucalyptus dumosa) scrub, intermingled occasionally with open plains and tolerable pasturage, it disembogues in Lake Hindmarsh. (See Lake Hindmarsh, p 596)

The leading characteristic of the Wimmera is its long and beautiful reaches, which extend towards the north and west, and are so numerous that Mitchell, after fording the main channel in 36° 46′ 30″ S lat, 142° 39′ 25" E. long., crossed no less than To the eastward of Lake King is Lake five, within the distance of a mile-and-a-half.

Avoca River, like the Wimmera, rises near Mount Cole, divides the Western Port from the Wimmera district, and disembogues in Lake Bael Bael. (See Lake Bael Bael, p. 596.)

A small stream named Avon River flows rapidity, as to sweep away bullocks, drays, into Lake Banynong. tioned. It takes its rise near Lake Barrambeet, thence running a southerly course, it however, is among the exceptions, being receives numerous tributaries, and falls into a beautiful sheet of fresh water, measuring Lake Corangymite.

this province are among the most remarka large extent of the surface usually covered crystals to the depth of three or four inches, squatters in this part of the territory, requiring only to be pounded when used for the table (See Geology of Victoria)

warth It hes about fifty miles due west of from the Pyrenees. the town of Geelong. When first discoto exceed eight or nine miles in circumference. The large lake is of a very irregular The Woody Yaloah enters the lake at its Hindmarsh, and is finally lost in a third north-eastern extremity; the Perring Yaloah at its southern. These streams have been mera district and the Western Port district, known to rise, in a single night, with such

between the Wimmera and Avoca, and falls and even men, encamped incautiously on Woody Yaloah River their banks.* There are many small lakes in flows in a different direction to those just men- the vicinity of Lake Corangymite, most of them containing salt water. Lake Colac, from seven to eight miles in length, by from two to three in breadth. Lake Poorumbeet LAKES.—The numerous inland lakes of is another fresh-water lake, in form nearly circular, and measuring about four miles able of its physical features. The waters of in circumference. The banks are precipitous, many of them are quite salt, much more so except at two or three points, where they indeed than the waters of the ocean; and sink to the level of the adjacent country. in summer, when the extensive evaporation The lake is much frequented by water-fowl. that always takes place at that season leaves The water, which is of excellent quality, and of unknown depth, is supplied by springs with water, and sometimes the whole bed of underground. It has an outlet to the souththe lake quite dry, the salt is found in large ward, where the water that escapes forms first a marsh, and afterwards a small creek and sometimes even of six, within the usual or stream. Lakes Colac and Poorumbeet he water-mark. It is of excellent quality, and near the southern extremity of lake Coranis used for all domestic purposes by the gymite, the former to the eastward, the latter to the westward.

Lakes Barrambeet and Boloke, or Bolac, are small fresh-water lakes, situated in the Lake Corangymite, (so called from the Portland Bay district. Lake Bolac is some native word, corang or coraing, signifying three miles in length, by about the same bitter,) the largest, is attuated in the Port- breadth. At one point the water is salt, land Bay district, between the counties of but elsewhere quite fresh. It is chiefly Hampden, Grenville, Heytesbury, and Pol- supplied by Fiery Creek, a small stream

Modewarre Lake (fourteen miles to the vered, it was supposed, from its vast size, to south-west of Geelong) is of a circular form, be an arm of the sea, but was proved by very shallow, and about six miles in circum-Dr. Thomson to be a lake, apparently ference. The banks are formed into regular exceeding ninety miles in circumference terraces all round, as if the water had once Its waters are perfectly salt, and towards the stood at a much higher level than it usually southward become very shallow. To the does now. In the continued drought of north the lake deepens to a degree which 1845 and 1846, the basin was quite dry, has not been ascertained. Lake Corangymite which it had not been previously during the consists properly of two lakes, the smaller of recollection of the settlers Its character and which (called Gnarpurt) is situated at the origin appear to be similar to the numenorth-western extremity of the larger—is rous circular lakes discovered by Mitchell, of a circular shape, and does not appear about 150 miles to the westward, named by him Greenhill Lake, Mitre Lake, &c

Lake Hindmarsh, in the Wimmera district, and serpentine form; and although the banks is a fresh-water lake, estimated at about are generally rather bare of wood, it forms thirty miles in circumference. It is entirely an attractive object in many fine views. supplied by the Wimmera river, which enters This vast basin is supplied by numerous it from the south, and has an outlet on the fresh-water streams, most of which, how- north, whence it pursues its course through ever, are in summer merely chains of ponds, a barren and uninhabited region, to a second their channels being, occasionally, quite dry. lake, from which it emerges as from Lake

> Lake Bael Bael, situated between the Wim-* Lang's Phillip's Land.

receives one branch of the Avoca river, the second pursues a northerly course, till again dividing, one channel terminates in a smaller town of Portland); to these have been added lake; the other proceeds in a north-easterly direction, until it is also lost in an extensive lagoon

Lake Banynong (in the Wimmera district) receives the Avon river.

Lake Boga-one of the numerous lakes near its junction with the Murray or Hume, is about twelve miles round, fresh, and profirm ground separates it from a smaller lake, (about three miles in circumference) which is surrounded with reeds and bulrushes, and covered with black swans, ducks, and other water fowl.

Lake Omeo, situated in the Australian Alps, between the Mitta Mitta and Livingstone rivers, is an extensive basin, marked in Mr. Ham's recent map (1849) by the emphatic monosyllable, "dry." Count Strzelecki, in 1840, describes it as possessing only the shape of a lake, with scanty water, and rich pasturage. It bears a striking analogy to Lake Bathurst and Lake George, being, like them, destitute of springs and feeders, above the level of the adjacent rivers, and assimilating, in shape, rather to a drained reservoir, than to the natural basin of a

Divisions —The larger and more southerly portion of Victoria has been lately marked out into counties. The three first established were, the counties of Bourke

* The boundaries stated by Mr Wells, in his Austrahan Gazetteer (1848), of the three first established counties, and of the five squatting districts above mentioned, are

Bourke County (Melbourne) sixty-five miles long, sixty broad, area about 2,500,000 acres, bounded on the south-west and west by the Werribbee, from its mouth to its source in the great dividing range, on the north by the great dividing range, from the source of the Werribbee to that of the Plenty river, on the east by Plenty river, from its source to its confluence with the Yarra Yarra river, thence upward by that river to the confluence of the Deep creek, thence by Deep creek upward to the point where the main stream commences to run in a north-west direction, thence by a line southerly from the aforesaid bend to the Dandenong creek, thence downward to the shore of the Port Phillip bay, and on the south by the shores of Port Phillip bay to the mouth of the Werribbee aforesaid

" Grant County (Geelong), fifty-eight miles long, north to south; forty-two miles broad, east to west, area 1,000,000 acres, bounded on the east by the western boundary of Bourke County, on the north by the dividing range, extending from Mount Blackwood to Mount Buninyong, on the west by Williamson's creek, to its confluence with the Yarrowee river.

(containing the city of Melbourne), Grant (the town of Geelong), and Normanby (the those of Follet, Dundas, Villiers, Ripon, Hampden, Heytesbury, Talbot, Grenville, Polworth, Dalhousie, Rodney, Anglesey, Evelyn, Mornington, Douro, Haddington, Bruce, Abinger, Combermere, and Howe.

The designations of Port Phillip or Ausbordering the upper course of the Loddon, tralia Felix are frequently applied to the whole province, although the region on which the latter term was originally bebably of considerable depth. A low neck of stowed extends only between the Glenelg and Campaspé rivers. The north-eastern portion of Victoria is usually termed Murray district, the north-western, Wimmera disrict; the south-eastern, Gipps' Land; the south-western, Portland Bay district, and the central, Western Port district, but the exact limits of these temporary divisions are very vaguely defined, and can be but of little interest to the general reader.* The capital of a newly colonized region is necessarily the first object of interest; we therefore proceed at once to examine the condition of Melbourne.

> Melbourne, the adjacent country, and the Western Port District generally.—The better to understand the actual position of this embryo capital of an embryo province, and to appreciate the incontrovertible evidence which it affords of the enterprising spirit of our Anglo-Australian brethren, we must look back upon its condition twelve years

> thence to its confluence with the Barwon river, and by that river to its source, and by a line south to the sea coast and the waters of Port Phillip bay

> "Normanby County (Portland), fifty miles long, north to south, eighty miles broad, east to west, area about 2,000,000 acres, bounded on the west by the Glenelg river, from its mouth to where the Wannon river joins it, on the north, by the Wannon river and Grange-Burn, thence by a line easterly to Lake Linlithgow, following Cameron's creek to its source, and by a line south-east to the head of Muston's creek; on the east by Muston's creek to its junction with the Hopkin's river, following the course of that river until it reaches the sea, and on the south by the sea-shore to the mouth of the Glenelg, including the Lawrence, Lady Julia, Percy's Island, and the small islands at Port Fairy

> " Western Port District is bounded on the south by the sea coast from Anderson's inlet to the southeast limit of the county of Bourke, further by the east and north boundaries of the said county to the Werribbee river, and a north-west line to Mount Cole, thence by a line to the Avoca river, by the Avoca river to Lake Bael-Bael, and thence by a line, due north, to the Murray river, on the north and north-east by the Murray to the Goulburn, following the latter river to its source, and on the east by a line

REMARKABLE PROGRESS OF THE CITY OF MELBOURNE.

of huts embowered in the forest foliage, memory to keep pace with the movement." and had much the appearance of an In- Brick buildings, some even of two or three dian village. the purpose of inns, for the settlers who transformed into handsome and convenient frequented the place. A small square wooden hotels; the lines of streets had been cleared, building, with an old ship's bell suspended marked, and were, in some parts, under from a tree, was used as a church or chapel a process of partial macadamization; many by the various religious denominations; two shops, warehouses, agencies, had been estabor three so-called shops formed emporiums lished; population had quadrupled; branches for the sale of every description of useful of two Sydney banks were in active opearticles; the flesh of the kangaroo and varation; and, in October, the Port Phillip rieties of wild fowl were abundantly used, Gazette was issued from the printing-office for fresh mutton was still scarce, and beef of Melbourne. seldom seen; and a manuscript newspaper, established by Fawkner, one of the enterfor the formation of this settlement, was the organ of public opinion in the new colony.

much fine and rough stone, adapted for the builder. The progress of Melbourne during the ensuing six months was extraordinary. Mr. Arden, one of its early residents, states, in the useful manual to which we have pre-

running due south to Anderson's inlet. The area

within the above limits is estimated at 10,000,000

" Portland Bay District is bounded on the west by part of the South Australian frontier; on the north by the range dividing the waters falling into the Murray, from the waters falling into the Glenelg and other rivers to the east of Portland bay, extending from the head of the Glenelg to Mount Cole; on the east by part of the Western Port district, and the county of Grant, and on the south by the sea coast, exclusive of the county of Normanby Area about 10,000,000 acres. [This large extent of country is now being divided into several counties—see accom-

panying map.] "The Wimmera District is bounded on the east by a line from Mount Cole to the source of the Avoca river, thence by the Avoca river to Lake Baelbael, thence by a line due north to the Murray river; on the north by the Murray to the South Australian frontier, on the west by the South Australian frontier to the range dividing the waters that fall into the Murray from those falling into the Glenelg, and other rivers to the eastward of Portland bay; and on the south by that range to Mount Cole. The area is estimated in the control of the control of

mated at 15,000,000 acres.

"The Murray District is bounded on the south and west by the Goulburn river, to its junction with the Murray river; on the north and north-east by the Murray river, and its tributaries; and on the southeast by the dividing range, termed the Australian Alps It contains about 8,000,000 acres."

Mr. Wells does not give any assignable boundaries

to Gipp's Land.

The following statement shews the progress of tering the port amounted to 54,928 tons.

In January, 1838, it consisted of a nucleus progress, as to render it impossible for the Two wooden houses served stories high, were numerous; the inns were

The rapid growth of the capital* received, in the years 1841-2, a severe but tempoprising men to whom England is indebted rary check. Its progress since, though less speedy, lacking the strong excitement, not to say the infatuation, which characterized its earlier formation, has been steady; and Fortunately, on the spot selected for the Melbourne of 1850 would do no discity, excellent brick earth was discovered at credit to a province of far older establishthe river side, and the neighbourhood yielded ment and more developed resources. The chief defect in the plan of the city is the concentration of the buildings, the plan originally laid down having been on too small a scale This is easily accounted for, as Melbourne was not originally intended for the capital of viously referred, that "so rapid had been its the province, the locality selected by Sir

> Melbourne from wild desert in 1836-7, to October, The figures and calculations are from June, 1837, to October, 1840 -

June, 1837-Population, 250; number of buildings, 36, value of buildings, £1,800, value of land,

£3,517.

June, 1838-Population, 1,800, number of buildings, 300, value of buildings, £60,000; value of land, £17,406

June, 1839-Population, 3,000; number of buildings, 560, value of buildings, £112,000, value of land, £169,542.

October, 1840-Population, 5,538; number of buildings, 923, value of buildings, £230,750, value of land, £372,600.

To the value of buildings . . . £230,750 Add value of land 372,600 Add the stock in trade of 36 mer-360,000 cantile houses, averaging £10,000 43,750 Of 175 miscellaneous dealers, aver £250 3,000 tons colonial shipping, averaging) 60,000 £20 per ton . . £20 per ton.

Deposits and capital of three banks, 300,000 averaging £100,000 . . , Paid up capital of five companies at 50,000 £10,000

And the total value of property will be £1,392,000

One million three hundred and ninety-two thousand pounds sterling

During the year 1840, the number of vessels which arrived at Melbourne was 313, nearly averaging one a-day (excepting the Sabbath), and the tonnage en-

DESCRIPTION OF MELBOURNE-VICTORIA PROVINCE.

the Yarra Yarra to the capital *

The public buildings of Melbourne, though respectable, and even superior class. The court-house and gaol at Melbourne have been erected, at a cost to the colonists of £30,000. The gaol, a gloomy-looking pile, constructed of dark ferruginous sandstone, is favourably situated for health and exercise, and commands one of the finest marine views in the neighbourhood of the city The building containing the government offices, placed on a commanding eminence in the western quarter of the town, near the court-house, is composed of dark blue whinstone and a light-grevish granite, which are judiciously blended. The custom-house, the next public building of importance, is stated to be a "chaste structure" The "Union" and the "Austral-Asian" banks have handsome houses. The episcopalian, presbyterian, Roman catholic, Wesleyan, independent, and congregational temples of worship, are all substantial edifices There is a mechanics' institute, erected of stone, at a cost of £4,000, and various other public and private structures. There is a general market, a cattle market, and hay and corn markets, all under the superintendence of various grades A bridge is now being constructed over the Yarra Yarra, composed of a single arch, 150 feet span, and thirty feet in width, which, it is estimated, will cost

* Captain Stokes relates an anecdote when describing the bay of Port Phillip, which well illustrates the difficulty of detecting the mouths of Australian rivers "In the north-west corner of Hobson's bay is the mouth of the Yarra Yarra river; but although only one mile and-a-half from the general anchorage, it is very difficult to be made out. Soon after we (i. e. H.M.S. Beagle) anchored in Hobson's bay, a small schooner passed, going to Melbourne. Several of the

Richard Bourke being Point Gelhbrand, the £10,000. A botanical garden has been peninsula forming the southern shore of established in one of the beautiful bends of Hobson's bay, (at the north-east end of the the river, and a good race-course has been bay of Port Phillip,) on which Williamstown laid out in the vicinity of the city. The now stands. The want of fresh water at streets are planned at right angles, the Williamstown appears to have been the chief larger ones being a hundred feet in width, obstacle to this design; while, on the other the smaller about thirty. The principal hand, the abundant supply afforded by the street is, strangely enough, named Collins. Yarra Yarra river to Melbourne and its after the brave officer who, when directed, in vicinity, was naturally a striking advantage 1803, to form a settlement at Port Phillip, in the eyes of many intending settlers, who declared it to be "all barren." and abanprobably could not conveniently spare the doned it as a hopeless undertaking. Elizatime or means necessary to ensure a suffi- beth-street is situated in a hollow, between ciency of that indispensable article of sub- two considerable acclivities to the eastward sistence. Williamstown is the anchorage and westward, called the Eastern and Wesstation for ships, as only small craft pass up tern hills, the course of the river being nearly due west.

Melbourne is divided into four wards, and necessarily not very numerous, are of a is under the municipal government of a corporation, consisting of a mayor, four aldermen, and twelve town councillors, whose exertions, though commenced at a period of general depression and commercial difficulty (November, 1842), speedily effected an improvement in the condition of the rising metropolis. The streets and by-ways of Melbourne (previous to the existence of the corporation) are described as having been frequently rendered impassable, from the operation of the weather, and the ceaseless traffic of ponderous bullock-drays. Thick gum tree stumps, and deep ruts, forming vast reservoirs of mud, were variegated by the intersecting gullies of temporary watercourses, and many an anxious wife and mother scanned the deep abyss of the urban excavations, in search of a drunken husband or a wayward child. A visitor, writing in 1842, declares himself to have been startled, soon after his arrival in the colony, by a paragraph in the newspaper, headed, "Another child drowned in the streets of Melbourne" In the following year, however, the stumps were removed by order of the town council, and the occasion of frequent accidents thus properly-qualified inspectors, and hotels of removed. † On the south bank of the Yarra Yarra, within a distance of three miles from Melbourne, there are many pretty cottages, surrounded by fertile and productive gardens, extending over a gently undulating

> officers were at the time standing on the poop, and each selected a spot at which the schooner was to enter the river; and although, as I have before stated, we were only a mile and a half from it, none of us was right. A single tall bushy-topped tree, about a mile inland, rose over the schooner as she left the waters of Hobson's bay."
>
> † Australia Felix, by Westgarth; Sydney and Mel-

bourne, by Baker.

declivity to the water's edge. The beauty of the scenery is enhanced by hills, and bold country behind the coast of Port Phillip and

woodland in the background.

a part of it, is a small green hill (Batman's) of a conical shape, washed at its base by the Yarra Yarra river, from which the ascent is rather precipitous. On the opposite side there is a gentle slope towards an open plain, with clumps of trees spread here and there in wild and irregular beauty. Further with water, which gives it the appearance of a fine lake; beyond it the Willoughby plains commence, studded with trees like an interrupted by a succession of green mounds, view is bounded by a lofty range of mountains, which begin near Geelong and continue Mount Macedon, bears the following testimany miles into the interior of the country.

On the east of Melbourne, the view is bounded by the Western Port range of mountains, which stretches from the seacoast inland until it reaches the Plenty and Western Port is a vast forest, broken at regular intervals by a succession of hills and valleys, which present many picturesque

The township of Collingwood, formerly Newtown, almost joins Melbourne: it has three hotels, one brewery, and numerous stores. Further inland, upon the banks of the Yarra Yarra, is the township of Clifton. For many miles the banks of this "wildly beautiful stream" are lined with villas and parks, and fringed with the graceful Yarra and mimosa trees.

In a westerly direction from Melbourne. in the direction of Mount Macedon, an open grassy plain extends for more than thirty miles, traversed by numerous creeks, and thickly covered with homesteads. The soil is light and dry, producing excellent pasture for sheep. Further west are the deep and romantic gullies of the Werribbee and adiacent creeks. The north portion of the Western Port district contains much valuable land, especially the extensive plains which extend between the Loddon and the Campaspé rivers, and also between the Campaspé and Goulburn or Bayunga, immediately below their junction with the Hume, to the south of which open forest country, clothed with good grass, but with occasional belts of scrub, extends along the eastern bank of the Loddon river.

Mr. James, speaking generally of the Portland Bay, describes it as among "the To the left of the city, and almost forming finest countries not only in Australia but perhaps in the world. Nobody can visit the banks of the Yarra Yarra, the heads of the river Plenty, the country about Mount Macedon, and the river Campaspé, without being charmed with its magnificence and brilliancy."

Mr. Richard Howitt-who was unfortunate on is a long swamp, nearly always covered in his attempt to settle in Victoria, partly (it would appear even from his interesting account of his proceedings) from his own inexperience, and want of perseverance, but English park. The level of these plains is chiefly from the disastrous period during which that attempt was made—in describing then by undulating flats, less timbered. The an excursion in search of his stray bullocks, which led him to within twelve miles of mony to the goodliness of the land .-- "A more picturesque and beautiful region was never looked upon. I saw a great deal of very delightful country; it had a delicately-smooth lawnlike surface, without scrub or stones. The country between Melbourne Around me spread a spacious plain, the 'she oaks,' a rich silky brown, scattered thinly and in clumps; further off, bounding the plain, knolls, slopes, and glens, all of the smoothest outline, crowned or sprinkled with the same trees; and beyond, mountains and mountain ranges on which rested deliciously the blue of the summer heavens. of these mountains were wooded to the summits, others revealed through openings immeasurable plains, where sheep were whitely dotting the landscape, the golden shadows seen at intervals betwixt the long shadows of the 'she oaks.' A more splendid and extensive country there is not in the world for sheep and cattle than Australia Felix. How fat and sleek are its immense herds! speak not here of the immediate neighbourhood of the town, but of the country generally." *

Williamstown (the sea-port town of Melbourne) whose early pretensions have been so effectually overshadowed by its powerful neighbour, is at present a mere coast village, with about 126 houses and 322 inhabitants. It nevertheless possesses great natural advantages. Situated at the head of the harbour of Port Phillip, with fine anchorage, a beach admirably adapted for the construction of piers and wharfs, and a considerable extent of level land washed on

^{*} Howitt's Impressions of Australia Felix, pp. 108 -115.

three sides by the sea, it is only reasonable the eastward of Point Henry, about seven to suppose that Williamstown will eventually miles distant from the port from south winds.

St. Kilda and Brighton, are two pleasant villages, situated on the eastern shore of the bay of Port Phillip, the former about two or three, the latter about six miles from Melbourne, in both of which are a considerable number of rural villas and cottages ornée, the residences, either constant or occasional, of respectable persons in business in the city. St. Kilda is the first point on the bay to the eastward, where the land is sufficiently elevated to be above the reach of all landof the line of houses along the bay, both there and at Brighton, at all seasons, in so tine a climate, forms a delightful promenade

The route and distances by which the "royal mail" travels from Melbourne, the capital of Victoria, to Sydney, the capital of New South Wales, are-Melbourne to Kinlochewe, 18 miles, Kilmore, 32, Goulburn river, 25, Honeysuckle creek, 56, Ovens river, 53; Albury, 50, Tarcotta creek, 85, Gundagai, 35; Yass, 66; Goulburn, 60, Berrima, 40; Campbeltown, 47; Sydney, 33; total, 590 miles. Some of these estimates, however, must be under the mark, for the whole distance is about 600 miles The "royal mail" leaves Sydney and Melbourne twice in each week

From Melbourne to Portland, 253 miles, there is also a "royal mail" conveyance once a week. Three steam boats ply darly between Melbourne and and Geelong

Geelong and its vicinity.—Geelong, the capital of the county of Grant (distant fortyported from Geelong, are obliged to he to valuable agricultural district. A vineyard,

The bar, which become an important place, as its disadvan- has but nine feet water at high tide, is said tage (the want of water) is remediable. The to be composed of an ancient deposit of only fault in its haven (Hobson's bay) ap- shells and other matter of inferior tenacity, pears to be that Point Gellibrand scarcely and its removal is considered practicable. projects sufficiently to shelter large ships Geelong has several commodious places of worship; some good warehouses have been erected in the town, and the neighbourhood is adorned with cottages and gardens principal inn (Mack's hotel) is built on a very large and expensive scale. Like most other Australian towns. Geelong has its race ground. Two small steam-boats ply on alternate days between Geelong and Melbourne. a passage of about six hours' duration. Geelong and Corio each support a weekly news-

paper.

The same policy, noticed in a previous floods, and the terrace to seaward, in front instance, as having proved so unconcentrative, is exemplified yet more forcibly in the case of Geelong The high price fixed upon the town allotments being found to hinder its formation, Sir George Gipps separated the township into two parts, calling the portion nearest the harbour North Geelong, and the other South Geelong, the minimum price of allotments in the former being £300 an acre, in the latter, £150. Suburban allotments, however, being procurable at the rate of £5 an acre, in one locality, and of £2 in another, opposition towns were formed immediately beyond the boundaries of the There is thus the rival government towns town of Ashby, a mile from North Geelong, Irishtown, the rival of South Geelong, from which it is also a mile distant, and Newtown, a third opposition town, between the other two The last census (1846) states the population of the government towns at 1.370, and that of the three opposition towns at 695 Corio, (pronounced Coraio, with the accent on the second syllable), is the five miles from Melbourne) stands partly on native name for the beach at Geelong the the picturesque cliffs of the fine harbour residents in the place usually call the town whose anchorage it overlooks, and partly on of North Geelong, Corio. About a mile the river Barwon. Geelong harbour is situ- and-a-quarter from Corio, the Barwon river ated at the head of the deep inlet formed by passes Geelong, in its tortuous course, to the the western arm of Port Phillip. Its southern ocean, and as there is a natural terrace point is a level expanse of land, named Point on each side of the river, parallel to its Henry, from which a long spit extends, banks, several suburban allotments have leaving only a shoal channel between it and been purchased in the vicinity, and delightful the northern shore. Thus, though the har-villas constructed on either bank. The bour has apparently a broad open mouth, it country round Geelong and the neighbour-18 impossible for a large ship to enter it, so ing villages is admired alike for the beauty that the vessels which are annually charged of its scenery and the richness of its soil. with the large quantities of wool now ex- which will probably eventually render it a for pasture or cultivation It seems to be a continuation of the same tract of level 200 miles to the westward of Geelong, between the coast range, or Marrack hills, and the ranges of the interior

To the westward of Geelong, grassy hills, occasionally varied with clumps of trees, extend towards lake Colac An immense forest, between Geelong and Melbourne, On subsequent investigation, it apa hard, solid, close-grained, dark-brown coloured wood, with straight trunks of twenty-five feet, and an average circum-

ference of nine feet.

The country from Geelong to the Glenelg river may, in general terms, be described as a parallellogram, of 200 miles in length, by twenty-five miles in average breadth, the whole of which consists of land of the first quality for cultivation. It is nearly a dead level; and, for a railway, would present few engineering difficulties, and require no tunnelling or embankments There is abundance of indigenous hard timber throughout, and a wooden railway might be laid down, at a cost of £1,000 per mile, whereby upwards of three million acres of the richest land would be rendered immediately available for the settlement of a numerous agricultural population

Portland Bay District and Portland Town —This district consists of a series of undulations, intersected by numerous rivers and creeks Portland, the chief town of Normanby county, and indeed of the Portland Bay district, is built on slightly rising ground, on the western side of the fine bay, whose name it bears It is well placed, presenting a fine bold terrace towards the sea, backed by a sufficient extent of level ground for a

large town

established near Geelong, among the Barra- forty allotments then disposed of realised bool hills, by three families of Vignerons, £11,026 Dr. Lang, writing in 1847, says, from the canton of Neufchatel in Switzer- that nearly £30,000 have since been invested land, produced, in 1846, at the rate of 1,000 in buildings. The population of Portland in gallons of wine per acre. The peninsula 1846 was 510. Its trade is already conincluded between the Barwon river and the siderable, and it has two respectable weekly western arm of Port Phillip, which is pro- journals. Mr. Angas, speaking from perbably about twenty-five miles in length, from sonal observation, says that the country in Indented Head to Geelong, contains about this vicinity bears marks of having been 160,000 acres, of which the greater part raised by volcanic action from beneath the consists of land of the first quality, whether ocean, the same white coral limestone which occurs at Mount Gambier, also appears here The aspect of the land resembles that in the country that stretches along for upwards of neighbourhood of Cape Northumberland, and it would seem that a similar belt of country extends in this direction. A thickly wooded district is in the immediate vicinity of the bay, consisting of stunted eucalypti, black-wood, mimosa-wattle, the cherry (exocarpus), and a little underwood The soil is rich, the country verdant, even in midwas at first reported to be composed of winter, and the climate cooler than that of The establishments of Messrs. Adelaide peared that the trees were not cedar, but Henty (the first settlers at Portland Bay) are extensive, and the town has grown up around them The soil around Portland Bay is described to be of the richest alluvial kind, the vegetable productions remarkable for their size and quality—the barley "yielding for four years a continued crop"—the timber peculiar for both beauty and utility, and the climate unrivalled. Several whaling vessels annually take up their stations in the bay, the property of parties residing in the neighbouring colonies The anchorage is good, the water in the harbour sometimes smooth enough to admit of landing from boats, it is, however, often troublesome, and indeed dangerous, to debark on the open beach, and several shipwrecks and loss of life have occurred A wooden railroad and jetty have been constructed from the stringy bark wood in the neighbouring forest, for the conveyance of goods to and from the vessels in the bay

Belfast is a thriving sea-port town, also situated in the county of Normanby, on Port Fairy. It is 779 miles from Sydney. Population in 1846 was 269.

One of the finest tracts in the district is situated between the Grampians and the boundary of South Australia The rich black soil, several feet deep on a subsoil of clay, is lightly wooded, covered with the finest pasturage, and abundantly watered by The first town allotments in Portland were the Grange Burn, Wannon, Glenelg, and sold on the 15th October, 1840, and the land their tributaries. The country near the mania having then reached its height, the coast, between the mouth of the Glenelg and Point Fairy, is generally poor, but there a thick carpeting of grass, but with a someis some better soil on the banks of the river what greater frequency and variety of natural is adapted for either grazing or cultivation. In the immediate vicinity of Mount Eckerley (Normanby county), there is a tract called "the five-mile patch," reported to be of extraordinary fertility. Mount Rouse (Vilhers county) is of trap formation, the soil around it, and between it and Mount Shadwell is good, but swamps are numerous An open forest of stunted Banksiæ extends six miles to the northward of Mount Rouse Fine downs for two or three miles in width. divide this from an open forest (chiefly of eucalypti) extending some distance east and west of Mount Sturgeon, the soil being pretty good.*

The country around Cape Otway is almost unknown, owing to its being densely timbered with forest trees of gigantic size, covered with rank and nearly tropical vegetation, consisting of an undergrowth of vines and other creepers, which flourish with extraordinary luxuriance, and form a trellis-work from tree to tree, through which a passage can with difficulty be effected by a tomahawk, the whole intersected with ravines and ranges which render exploration very diffi-This tract extends over about two million of acres, and is said by the few who have penetrated it to some extent to be plentifully watered by running streams The timber is of the most valuable description, and includes a cedar not found in other parts of the province. The country, although now considered wild and impracticable will, it is supposed, from its peculiar resources, be eventually found available for small settlers of the non-stockholding yeomanry

An open country, with vast plains, extends from Lake Colac and the river Leigh, to the north and west of Lake Corangymite and Mount Elephant. To the southward of Colac Lake there is a romantically beautiful district, with a thickly grassed soil, interspersed with the tracts termed "stony rises" Near Lake Corangymite the land is equally fine, especially to the westward. neighbourhood of Lake Killambeet there are of the soil plains of great extent, belted with tall trees copses, and open forest. Lake Porumbeet, on the road from Mel- broken country to the westward in which bourne to Portland, "the country," says the Tangella creek takes its rise, to the Dr. Lang, "for the next seven or eight eastward, the dividing range, here called the miles, continues pretty much the same as Australian Alps, with its stupendous peaks before, rich plains, slightly undulating, with and domes, and in front the beautiful valley " Tver's Report.

Crawford, and the land on the Fitzroy river wood" The Mount Leura district is remarkably well watered, rain is frequent, springs abundant, as well as creeks or small streams, and water holes, or natural pools. A whimsical proof of the contrast afforded by a large portion of the Portland Bay district and the adjacent regions, to the impenetrable nature of other parts of the provice, was afforded in the early days of the colony by Messrs Hawdon and Mundy, who left the neighbourhood of Mount Macedon, m a tandem, on the 11th of July, 1839, and drove through the uninhabited country to Adelaide, a distance of 540 miles in twentyseven days They described this extensive region as being for the greater part like an English park.

Wimmera Squatting District. - Sandy wastes, alternating with extensive tracts, covered with the impenetrable scrub (eucalyptus dumosa) called Mallee by the abortgines, render the northern and western portions of this district hopelessly barren; but on the east of the Wimmera river a good sheep country extends in a parallel direction with the river, composed of light forest and plains. The lakes of this district are numerous, the chief of them, namely, Hindmarsh, Boga, Bael-Bael, and others, have been

already mentioned.

Murray District -Count Strzelecki, on his journey to Gipps' Land, visited this district, and crossed Mane's range, a spur of the Australian Alps, which divides the tributary creeks that flow from either side to the Murray and the Murrimbidgee. To the eastward of the meridian of 148° the mountains present the effects of some extraordinary perturbations, and form many culminating and characteristic eminences, to the westward they are grouped in confusion, and the country is broken, rocky, and often impassable But both the ranges and valleys furnish abundant natural and artificial crops, as is evident from the healthy state of the sheep and cattle, and from the returns of grain In the which the squatters obtain from the culture Between the Mane and Ajuk ranges north of the parallel of 37°, every North-west of feature bears the stamp of grandeur; the which the Murray so bountifully waters, steep ridges.

rocks, richly mixed with sediments of decomposed vegetable matter. For pasture and agriculture, the valley of the Murray, with those adjacent, and the country round Lake Omeo, offer the most suitable spots. Strzelecki says, the Murray, with its tributaries, the Mitta-Mitta, and others, supply both the valleys and Omeo with plentiful streams; everywhere nature seems to have most liberally enriched this district for the benefit of man.

Mercer's Vale is a grassy plain of ten or twelve miles in extent, almost completely destitute of timber, and surrounded in great measure by hills of moderate elevation, and distant mountain ranges.

Gipps' Land District and Alberton.—This important section of the Victoria Province may be said to extend from Cape Howe to Cape Paterson, near Western Port, on a seacoast line of about three hundred miles The inland boundary is marked by the Strzelecki range and Australian Alps, stretching from Western Port to Mount Kosciusko, thence to Cape Howe along the boundary line which separates Victoria Province from New South Wales The portion examined by Count Strzelecki, in 1840, from the Thompson river to the southward has a seacoast of about 250 miles in extent, and comprises an area estimated at 5,600 square miles, of which about 3,600 consist of forests, plains, and valleys, which in richness of soil, pasturage, inland navigation, and situation, cannot, it is said, be surpassed. Two thousand square miles of the coast range are clothed with the blue gum and black butt trees of excellent quality, and contain many large and deep valleys, well adapted for The country is abundantly watered by numerous rivers, and by a navigable lake and lagoons which bisect the coast for 100 miles.

According to the Parliamentary Papers, No 120 (9th March, 1841), containing the interwoven with grasses, and encumbered copy of a despatch by Sir G. Gipps, which with gigantic trees, fallen and scattered shows the progressive discovery and occupa- in confusion, that Strzelecki, when passing tion of New South Wales during the period from Gipps' Land to Western Port, was of his administration, "Gipps' Land" begins forced, in the route adopted, at its very at 17 miles S.S.E. from Lake Omeo, and commencement, to abandon his pack-horses

unite to form attractions of no ordinary is bounded on the NE. by the meridian of magnitude. Count Strzelecki followed the 148°. In this report, Strzelecki says, that windings of a valley in this district for about few of the parts explored presented him with seventy miles, and found it intersected by more gratifying prospects than this division: gullies and torrents, and by numberless a beautiful stream, the first of the eastern waters, winding through a fine valley, soon The soil in all the valleys is composed of assumed the features of a river (the Thompdisintegrated argillaceous and calcareous son), and appeared to be a guide into a country hitherto unoccupied by the white man. A hilly country closes the valley, narrows the river banks, and brings the explorer across the mountain ridges to an elevation from whence there is a view of the sea on the distant horizon; to the southeast an undulating country, with mountain ridges to the north-east. Approaching or receding from the river according to the windings of its bordering hills, the descent into a noble forest tract is effected.

> The valley of the Thompson river is separated from that of the M'Arthur, which is wide and covered with luxuriant pasture. and slopes gradually in open forest ground to Lake King and the sea-coast. From the M'Arthur river, a south-west course leads through forest and pasture country, crossed by several rivers, and intersected by hills clothed with timber; the coast range of mountains approaches nearer to the ocean, and narrows the expanse of forest into a vast valley. The magnificent prairies termed Barney's Plains, from thirty to fifty miles in extent, and bordered by copious streams, are surrounded by the most attractive scenery. The dividing range is continued in a southeast direction to Wilson's promontory, and presents some fine panoramic views. Viewed from Mount Gisborne, Gipps' Land is described by its explorer, as resembling a semi-lunar amphitheatre, walled from northeast to south-west by lofty and picturesque mountain scenery, and open towards the south-east, where it faces with its sloping area the uninterrupted horizon of the sea.

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and collections; and not until after twenty- however, fit for stock; and pure water may, six days of incessant labour did he and his half-famished party succeed in extricating themselves from a situation in which they were in imminent danger of perishing. Such were the difficulties encountered on that occasion, that, with the utmost exertion, stimulated by the sense of peril, a progress of from two to three miles a day, was all that could be accomplished.

The honour of discovering this district is disputed with Count Strzelecki by Mr. M'Millan, overseer for the Messrs. M'Alister, of New South Wales, who in January 1840, made an expedition into an unexplored country. which, from its resemblance to his native land, he named Caledonia Australis, and in the following month wrote to his employers a somewhat detailed description concerning it. The result of Count Strzelecki's expedition was made known in July, but without attempting to decide the question miles by the coast line of priority of discovery, the ment of ac-Count

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Alberton, the port of Gipps Land, in 38° 44' S., 146° 41' E., is situated on the left bank of Albert river, and within two miles of the Tarra river, which is to the eastward. It occupies a very important position, and is rising into eminence. Alberton is distant from the Latrobe river twenty-five miles; at this point, the road into the interior crosses the Latrobe, and a tram or wooden rail from Alberton, will open the inland communication Steam-vessels are probably, by this time, plying between the Albert and Melbourne, a distance of 220

Geology.—The principal geological feaquainting the public with the existence of ture in this division of Australia is the volthese fine pastures certainly rests with the canic region, which extends over an area of 300 miles from east to west, and 100 to 150 There are no vol-The first canoes at the present time, but there are consists of poor sandy soil and dense scrub, numerous craters, which by some are supthe second, of open forest, forming good posed to have poured forth their lava and pasture land; and the third, of the best fire while Southern Australia was still subtion, is the land along the sea coast, and also number and size of these volcanic cones we the higher mountains, which are, for the have as yet no precise intelligence. Mount most part, covered with dense scrub, growing Leura, which is situated between lakes Timboon and Porumbeet, to the eastward of The back country, generally, towards the Lake Corangymite, is upwards of 600 feet in base of the mountains that hem in the height, has about a fifth part of the rim of district, may be included in the second the ancient crater remaining, within the description while the third comprises the crater a conical hill has been formed, its alluvial soil, within two or three miles of the summit nearly on a level with the exterior rivers, and a belt of five to twenty miles rim, and covered with trees and brushwood in breadth, generally along the lakes, from The ascent towards the top of the mount is the Tambo river to Alberton. Dr Lang very steep The sides are plentifully covered thinks there are no less than 500 square miles with scorize and fragments of rocks that have = 320,000 acres, of these rich flats, unen- undergone the action of fire; but Dr Lang, cumbered with timber, and ready for the who examined the crater, did not observe plough; close to navigable water; so gently any of the light pumice-stone, or cellular undulating, that hardly any change in the lava, which are found in such large masses level is observable; with abundance of white, in the volcanic region of the Mount Macedon blue, and blackish limestone, from the vici- district. Blocks of igneous rocks are seen nage of the snow-covered Australian Alps, for miles around Mount Leura, protruding and the southern coast of the Pacific, blessed from a deep chocolate-coloured soil, consistwith abundance of rain, and enjoying a cool ing chiefly of decomposed volcanic matter. but genial climate. The lakes are quite From the summit of Mount Leura twelve fresh in winter, and the rivers always so: volcanic cones are visible, and as many lakes, but in February and March, the water of several of which were formerly the craters of steep ridges.

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There are three distinct descriptions of land in the Gipps Land district The first consists of poor sandy soil and dense scrub, the second, of open forest, forming good pasture land; and the third, of the best quality for cultivation Of the first description, is the land along the sea coast, and also the higher mountains, which are, for the most part, covered with dense scrub, growing on masses of disintegrated granite or sand. The back country, generally, towards the base of the mountains that hem in the district, may be included in the second description. while the third comprises the alluvial soil, within two or three miles of the rivers, and a belt of five to twenty miles in breadth, generally along the lakes, from the Tambo river to Alberton. Dr Lang thinks there are no less than 500 square miles = 320,000 acres, of these rich flats, unenlevel is observable; with abundance of white, blue, and blackish limestone, from the vici- district the lakes becomes rather brackish. It is, other extinct volcanoes. Of these Mount

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Alberton, the port of Gipps Land, in 38° 44' S., 146° 41' E., is situated on the left bank of Albert river, and within two miles of the Tarra river, which is to the eastward. It occupies a very important posiwooden rail from Alberton, will open the inland communication. Steam-vessels are probably, by this time, plying between the Albert and Melbourne, a distance of 220 miles by the coast line

GEOLOGY.—The principal geological feacanic region, which extends over an area of 300 miles from east to west, and 100 to 150 miles from north to south There are no volcanoes at the present time, but there are numerous craters, which by some are supposed to have poured forth their lava and fire while Southern Australia was still submerged beneath the Pacific Ocean number and size of these volcanic cones we have as yet no precise intelligence Leura, which is situated between lakes Timboon and Porumbect, to the eastward of Lake Corangymite, is upwards of 600 feet in height, has about a fifth part of the rim of the ancient crater remaining, within the crater a conical hill has been formed, its summit nearly on a level with the exterior rim, and covered with trees and brushwood The ascent towards the top of the mount is very steep The sides are plentifully covered with scorize and fragments of rocks that have undergone the action of fire; but Dr. Lang, cumbered with timber, and ready for the who examined the crater, did not observe plough; close to navigable water; so gently any of the light pumice-stone, or cellular undulating, that hardly any change in the lava, which are found in such large masses in the volcanic region of the Mount Macedon Blocks of igneous rocks are seen nage of the snow-covered Australian Alps, for miles around Mount Leura, protruding and the southern coast of the Pacific, blessed from a deep chocolate-coloured soil, consistwith abundance of rain, and enjoying a cool ing chiefly of decomposed volcanic matter. but genial climate. The lakes are quite From the summit of Mount Leura twelve fresh in winter, and the rivers always so: volcanic cones are visible, and as many lakes, but in February and March, the water of several of which were formerly the craters of

Eccles, near Portland bay, is the most per- The general character of the rocks in the fect; it has a small lake of fresh water at the province is vesicular trap, or cellular lava bottom of the crater, much frequented by The sides of many of the hills, particularly wild fowl; the lava which it formerly poured those of Mounts Elephant and Nanime. forth can be traced for ten miles. Mount are covered with a vast quantity of heavy Eccles is fifty miles due west from Mount scorize, resembling the refuse of smelted Shadwell; Mount Rouse (elevation 526 feet) iron. thirty miles distant to the northward of west; and Mount Napier, a well-defined Tyers, except where the formation was limecrater, is forty-five miles, nearly to the stone or granitic, the magnetic properties of northward of west. Mount Napier is sur- the rocks were so great, as to render the rounded by sharp angular fragments of needle almost useless as a surveying instrutrap. These three mountains are all within ment. In some cases, the deviation of the a few miles of the 142nd degree of east pole from the magnetic north was upwards longitude. It is therefore a region of of ten degrees. In his route from Melgreat interest to geological inquirers, and bourne, Mr. Tyers proceeded by Geelong, a proper survey would add materially westward, to Mount Shadwell; thence to to the facts which are being registered Mount Rouse, then north to Lake Linin different countries in illustration of lithgow; then westerly to Yo-ho ponds; the changes this earth has undergone. thence south to Mount Eckersley and Port-Canada, New Brunswick, Nova Scotia, land bay; and from thence along the coast Prince Edward Island, and other colonies to the Glenelg river. His return route was (of older establishment, it must however be nearly on the same line, until he reached remembered,) have each provided out of their Mount Sturgeon, whence he travelled to local revenues the funds necessary for geo- Melbourne by Lake Bolac, at a distance of logical surveys of their respective provinces; twenty to thirty miles north of his outwardand it is to be hoped that this important bound route. duty will not be long delayed in Austral-Asia, not only for the sake of science, but as a in Mount Cole, a lofty mass of granite, as means of exploring the mineral treasures, do also the Australian Alps, Wilson's Proand of becoming better acquainted with montory being of hard granite, about twenty the qualities of the soil, in order to its Tracts termed more successful cultivation. stony rises exist in several districts; they are usually ranged around, or in the vicinity of, a volcano, and consist of innumerable hillocks or ridges of rocky fragments, varying in height from ten to fifty feet, crowded together in a confused manner, as if ejected Chinese split the hardest granite into cofrom the neighbouring volcanoes. been caused by some subterranean force at no great depth from the surface, which has raised up and broken into fragments the rocky covering previously spread by igneous action over a great extent of this part of Australia. Some of these rises are not stony, but smooth and covered with in the valley of the Glenelg river. It varies grass, and beneath the soil is a stratum of considerably in the size of its component earthy limestone. The rock of the stony parts, which sometimes, especially in quartz rises, which is of basaltic character, usually and felspar, exceed one foot square; and in vesicular in structure, with a large admix- this Sir T. Mitchell found distinctly im-

Throughout the country traversed by Mr.

The Pyrenees terminate to the southward miles long, by six to fourteen miles broad There are immense surface masses of this formation at the distance of five and ten miles from Melbourne; said to equal that obtained near Aberdeen. The stone in some places bids defiance to the best tempered tools; but the manner in which the Mr. lumns twenty or thirty feet long might be Westgarth is of opinion that they have tried. They drill holes at short distances along the splitting line, and then insert dry spongy withs, or a reedy substance, which, on the application of moisture and heat divides the largest blocks into the thickness required.

Granite is found protruding in some places ture of iron, is probably beneath the earthy bedded friable masses, apparently of sandlimestone strata. The rocks enclosing the stone, but which on further examination singular valleys, containing the stagnant were ascertained to consist of a very finesalt lakes near Mount Nicholson, are com- grained grey granite, approaching in its posed of basalt, and in an adjacent running character to mica slate. The bluff hill stream it hes in blocks, forming small cliffs. called Mount Cole consists of huge blocks of granite, composed of pink felspar, white is described as consisting of a fine ferrugi-

quartz, and silvery mica.

The base of the Bunninyong or Brisbane range is supposed to be schistus. Mount Bunninyong, its southern termination, 1570 feet in perpendicular height, is of volcanic origin. Mount Macedon is sienitic.

In a small marsh near Mount Macedon, about five feet below the surface, and immediately beneath a dark alluvium, about a foot in thickness, covered by a bed of yellow clay, of eighteen inches, on which rested a stratum of rich black soil, there were found, in 1846, the fossil bones of several extinct animals. Mr P Mayne was the discoverer. and they are described by Mr. M'Combie, a gentleman who has exerted himself with success in making the condition of the Australian colonies understood, and who is now the editor of the Port Phillip Gazette -

" Amongst the bones found are the molar teeth, under law part of a femur, humeris, and scapula and other bones of a very large animal, resembling, in many of its anatomical characters, those of the The molar teeth consist of the recurved mastodon transverse ridges, which were covered externally by a thick layer of enamel The posterior ridge has, at its base, a small transverse prominence, covered by enamel, which ran parallel to the facet The two nidges are united by an isthmus of crusta petrosa, so characteristic of the mastodon The largest of these teeth measured one inch eight lines transversely, and in an antero postero direction, one inch six lines The distance between the ridge of the crown and the extremity of the fang, in one of the largest specimens, was three inches six lines covery of half an inferior jaw bone, with the teeth in situ, gives the following dental formula -incisors, 2, canines, 0, molars, 6, but this, however, requires other confirmatory observations The enamel is arranged (with a very trifling difference) like that in the European and American species of mastodon, the mammilloid character of the tooth only being wanting, but the solitary incisor, and the isthmus of crusta petrosa uniting the bases of the angular ridges of the molars, are highly characteristic of the The largest bone, which appears to be mastodon the shaft of a thigh bone, has, unfortunately, both its articular extremities broken off, but from its broad and flattened character, it must have given support to a ponderous carcase Its broadest part measured ten inches in circumference The blade bone, or scapula, is also a large and strong bone, but so much mutilated as to have lost its features Molar and incisor teeth, with other bones of a large species of kangaroo, exceeding by one third, at least, the largest individual of the present macropus major, are abundant This fossil is probably identical with that found in the Wellington caves by Sir Thomas Mitchell, and called by Professor Owen, macropus titan Two incisor teeth of a huge rhodent were also found amongst these bones"

cuous mass of granite, and by other writers had some of their constituent ingredients

nous sandstone, in which is imbedded a quantity of quartz, but between Mount Sturgeon and Mount Eckerley, twenty miles to the northward of Portland, and sixty miles in a direct line south-west of Mount Sturgeon, the rocks are chiefly trap, which indicates the volcanic character of the intermediate plain

At the extremities of Mount Napier, in Normanby county, rough sharp-pointed fragments of cellular rocks are scattered about in heaps, the cells or pores are several inches in diameter, and, unlike amygdaloidal rocks, are all empty The reefs at Portland Bay consist of a similar rock in rounded nodules, and a more compact trap rock, consisting principally of felspar, lying above them

Near Cape Otway the sea-coast is of a sandstone formation, the cliffs attain, in some places, 100 feet in perpendicular height, and are studded with granite pebbles, like plums in a plum-pudding About ten miles to the west of Cape Otway there is a remarkable cave, large enough to hold some hundred men, with a beautiful crystallized substance, formed by the dropping of water for years, and hanging from its centre, like a chandelier.

From Port Fairy to the Glenelg river, the country is of limestone formation, and, at these two places, nearly pure at Portland Bay are composed of an armaceous limestone (containing oysters, and the exuviæ of other shell-fish), ferruginous sandstone, and trap Over the limestone is a red clay, and a red pigment or othre, used by the natives for painting their bodies Half-way between the Glenelg river and Portland bay, on the south-east side of a lake, are cliffs of conglomerate, composed of quartz, trap, sand, and shells, about twenty feet high, in horizontal laminæ of an inch thick, with narrow vertical strata of pure lime Fine-grained sienite has been found at Mount Henly station, on the Wannon river.

The country between the Murray and the vicinity of Lake Omeo shows, on an extensive scale, the primitive and secondary rocks. argillite and quartz rock on the one side to the east, old red sandstone, with conglomerates, on the other to the west, the petrosiliceous porphyry, as intermediate or transition rock, appears as if only to indicate their respective limits. The numberless Mount Sturgeon, the southern extremity of streams of lava, the trachitic rocks, and the Grampians, is said by some to be a conspi- others, which, through intense heat, have

altered, give evident proofs of volcanic and more than an inch in thickness, as if originally served as a laboratory.*

MINERALOGY.—The volcanic character of weighing seventy-two ounces. Barwon river, in the Geelong district. The shillings per ounce. Head, at Cape Otway. varying from east-north-east to west-southwest The specimens of copper ore collected extensively distributed. in this district yielded, on an average, fortyfive per cent. of copper

The rivulets Meiri and Darebin, in Melbourne district, are strongly impregnated with aluminous matter. Ironstone abounds in several districts, usually in the shape of pebbles strewed over a plain Surveyor Hoddle, in his survey of the country near Melbourne, found that seventy-five per cent. of this stone consisted of iron ore, and so powerful was its effects upon the instruments obtain correct measurements terior bases.

of Mr. Brentani, a watchmaker and jeweller, mineral will be found very valuable. at Melbourne, several pieces of native goldone lump, of great purity, weighing twenty- where there are several extinct craters. The two ounces, exhibited minute portions of production of salt is not unfrequently acquartz, was soft in texture, easily cut with companied by volcanic action, as in Sicily

* Report by Count Strzelecki to Sir G. Gipps.

agency, to which Lake Omeo may have taken from a perpendicular fissure in the rock. Mr. Brentam is said to have a lump The comthe country indicates the presence of rich mander of the ship Berkshire, which left minerals, but, as yet, little attention has Port Phillip for London, 25th February, been paid to the subject. Copper and lead 1849, purchased fourteen ounces of the ore have been found on the banks of the native gold from Mr. Brentani at eighty Gold-dust has been specific gravity of the lead ore is 6.4 per found in the river Plenty, in the bed of cent. Copper ore, lead, platma, and man- the stream, which consists chiefly of mica. ganese, have been discovered along the Quartz sent to England for analyzation, coast from Point Urquhart to Moonlight yielded twenty-eight ounces of gold for each The ore runs in ton of ore. The geological structure of Vichorizontal veins of four miles in breadth, toria province indicates the presence of the precious metals, which will probably be found

Salt is obtainable in abundance from the waters of the interior lakes. Professor Farraday examined specimens of the waters collected from the salt lakes by Sir T. Mitchell, and stated that all of them were solutions of common salt, much surpassing the ocean, or even the Mediterranean, in the quantity of salt dissolved Besides the common salt, there were present (in comparatively small quantities) portions of sulphates and murates of lime and of magnesia; the of the surveyors, as to render it necessary waters, except in strength, every much reto sell the sections of land at a certain sembled those of the ocean. Three drams number of acres, more or less, it being of the waters of lake Cockajemmy yielded found impossible, in some situations, to 113 grains of dry salme matter, others The sides of seventy-seven grains. A quantity of the Mounts Elephant and Nanme, particularly salt deposited on the shores of Lake Bolac, those of the latter, are covered with a quan- analyzed by Dr. Anderson, of Edinburgh, tity of scoriæ somewhat resembling the gave the following results:-chloride of refuse of smelted iron. These mounts bear sodium (common salt), 99.654; sulphate of every appearance of having had a volcanic soda, 0.104; chloride of magnesium, 0.052; origin; their form is that of a horse-shoe, insoluble residue, 0.190; lime, a trace= open to the westward; the interior sides 100.000. It was described as "a remarkslope down almost to a level with the ex- ably fine looking salt." When the summer heat has caused great evaporation, the bed Gold is reported to be plentiful in the of a lake is sometimes found quite dry, Pyrenee mountains, distant about 100 miles and covered with salt crystals to the depth from Melbourne. It is said to have been of three or four, or even six inches, within discovered by a shepherd lad, who, after the usual water mark. In the vicinity of selling his gold at the city, returned to Lake Corangymite, the settler has only to seek for more; he was followed by some send a bullock-dray in the morning, with a persons, and not having since been heard few men, and it returns in the evening with of, is supposed to have been murdered, a load of two tons weight. For the curing of Dr. Clutterbuck saw, in 1849, at the shop meat, and the improvement of the soil, this

These salt lakes are found in the region a knife, of uneven surface, somewhat oblong, and other places. Many of the rocks near the salt lakes of Australia are of the trap formation; and Sir T. Mitchell states that a dark-coloured soil is found in the ridges about some of these lakes. I am disposed to think that the deposits of salt are obtained from the saline earth, rather than to agree with Sir T. Mitchell, that "the sea deposited the water in these situations at no very remote period." Some of the lakes have been filled again and again by rain and fresh river-water, but the summer evaporation annually leaves a fresh deposit of salt.

Very good limestone is quarried at Point Nepean, the head of the Port Phillip bay, and lime of fine quality, used as stucco for the outsides of houses, walls, and columns, is made from oyster and cockle shells, of which extensive beds are found around the The whole of the coast line from the Glenelg river to Port Fairy (eighty miles) is of limestone formation, and this probably extends some distance into the interior the northern part of Alberton district there is a great quantity of limestone of various kinds, some white, some blue, and some black, and on the banks of the Mitchell river, about twenty miles from Lake King, there are large banks of ovster and other fossil shells under a thick layer of earth hill of marble was found by surveyor Stapylton near Mount Macedon

Coal is found at Western Port, but no mine is yet worked. It is also stated to exist to an almost unlimited extent near Loutit bay, which is about three miles from Cape Otway The coal lies in large quan-

tities along that part of the coast

The following abstract of the report of Mr Cameron, who was deputed by the local authorities at Melbourne to examine the coal region at Western Port for her Majesty's government, dated November, 1840, will indicate the nature of the mineral found in this part of Australia.—

"Upon my arrival at Western Port, I commenced to examine minutely the several seams of coal which presented themselves superficially, lying to the eastward of the bay, which I found situated at such an angle of depression as to be wholly unworkable

"There were four veins of coal, which were more or less associated with a soapy clay, sandstone, and greystone, and which varied in thickness from one inch to nearly three feet. Upon combustion, these coals emitted a very strong and fierce heat, depositing heavy bases, bearing a yellowish tinge or cast From the tossed and shattered appearance of those several veins, an indication is manifested of the close affinity of some extensive dyke-fault or trouble, as dislocations in the coal strata are technically denominated

" Having traced the coal measures throughout the

direction of Cape Patterson, about twelve miles to the eastward of the port, I discovered various stringgling open seams (termed the crops) of coal, varying in quality and thickness from two inches to four feet, and lying at such an angle as to be rendered available for mining. Here, as in Western Port, the coal is associated with grey-tone, sandstone, &c. In some, however, of the veins, the coal is of excellent quality, possessing a considerable proportion of bitumen, which would render it especially desirable for the puiposes of gas, for exportation to Sydney, or for consumption at the towns of this province hereafter, when the public convenience of gas shall be introduced

"The lofty and precipitous character of the rocks upon the coast exposed to view a section of strata which induced me to advance some miles farther than the strict line of my instructions directed. On approaching towards that part of the coast which inclines towards Cape Liptrap, I found the coal strata increased in thickness and regularity, but, from an accident which occurred to me at this period, whilst prosecuting my researches, I was precluded from following up my observations with a close examination. These were, nevertheless, sufficiently justificatory of my suggestion, that, in any future search for coals, this portion of the district should be minutely examined. The increased thickness and regularity of the measures strongly indicate, though not positively, the association of more extensive beds or seams of coal."

Mr. surveyor Smythe, who explored the south-east coast from Point Urguhart to within about fifteen miles of Cape Otway, says that extensive veins or seams of coal commence at a point thirty miles from the Port Phillip heads, and dip in every direction, the general bearing being north-north-The mineral west and south-south-east seems to abound over a considerable extent of country. It is described as "in large scams of four feet in thickness, extending from 400 to 600 feet in length, as burning well, with little or no smoke, and leaving a fine white ash, resembling the purest description of cannel coal "

Soil —An earth formed of decomposed lava has in every country been found to possess extraordinary fertility. In the West Indies, in Sicily, and other countries, where volcanoes are in full activity, the inhabitants brave the dangers of the burning lava, on account of the richness of the surrounding region. A large part of the territory between Melbourne and Portland (nearly 200 miles) is of the dark chocolate-coloured soil, peculiar to a volcanic country; it is not surprising, therefore, to hear of wheat attaining a height of seven feet, and yielding sixty to seventy bushels per acre; oats, ninety bushels per acre; maize, 100; and other crops an equally valuable return for the labours of the husbandman. To the west200 miles, there is an almost continuous flower not unlike the laburnum in shape. rocks, affording the basis of a soil which usually characterizes a rich agricultural country. Over this extensive region the extinct volcanoes give a picturesque variety to the well-grassed plains, the clumps of timber upon hill and dale, and the long lines of gum trees that mark the courses of the winding creeks This country is being rapidly occupied.

Mr. Malcolm, an extensive settler and stockowner in Australia, in his evidence before a committee of the New South Wales Legislative Assembly, in 1845, stated that he had travelled extensively in England and Scotland, and had seen large tracts of land in the Port Phillip province as rich as any he had seen in Great Britain. The district of Lake Colac, for about 200 miles, is "as good land as ever plough was put in " There are thousands of acres adjoining Lake Colac clear of timber. Keeping the south side of the lakes, the country, all the way from Colac lake to Port Fairy, Portland Bay, and the Glenelg river, is a fine grazing country; a great part of it is too rich for sheep. The land north of the lakes is said not to be so good; but still well adapted for stock

In the splendid country between Geelong, Lake Colac, and the Glenelg river, there is a soil unsurpassed in point of fertility. The tracts suited for cultivation are not confined to the banks of rivers or creeks, but extend generally in all directions, and the rains being regular, and the country not subject southward of New South Wales, gives it a to drought, the pasturage throughout the year is perfectly sufficient to feed stock without artificial food, and to produce fat cattle, unsurpassed in any other part of the world

In the district of Lake Colac, and around Mount Leura, there is much land, of which the natural pasture would maintain a bullock an acre all the year round, whereas the best land in Somersetshire, England, is allowed to be only capable of sustaining a bullock and a sheep for seven months, the animals being stall fed during the other five.

The richness of the soil is seen in its vegetation; Dr. Clutterbuck says that the daisy, buttercup, and the pretty but inodorous violet, are seen everywhere; the Floræ are exceedingly beautiful, and, in the spring, literally carpet the ground; the wild geranium, a diminutive plant bearing a tiny winter maximum, 69.8; winter minimum, pink flower, grows abundantly; two most lovely creepers are found growing in every years resident in the colony.

ward of Geelong, for a distance of nearly variety of soil-one bears a brilliant scarlet succession of whinstone and other allied the other has tufts of a blue colour, resembling the double violet; the balmy perfume of the golden and silver wattle (the mimosæ tribe) is exhaled far and near, the brunonia, bearing a flower in colour like ultramarine, in many places covers the surface with " nature's most exquisite embroidery," the musk plant and hyacinth are indigenous; the English pelargonium and fuschia blossom throughout the greater part of the year; and European vegetables and fruits attain a size "which would excite astonishment in the mind of a Covent-garden fruiterer."

> In most parts of the district finely open and undulating ground is to be found, adapted to the wants of the grazier and agriculturalist; in very many a rich black soil from eight to twelve inches in depth prevails, containing much decomposed vegetable matter with an argillaceous soil. Where this occurs, the valleys are composed of extensive, verdant, and fertile flats of vegetable mould. In some situations the soil is red, in others, a clayey hazel loam greater number of soils contain large portions of sand of various degrees of depth and fineness, and hence acquire the property of powerfully absorbing the rays of the sun Admitting that some portions of the country are boggy, and a proportion sandy, rocky, and barren, yet, "millions of acres of good arable land are to be met with "*

CLIMATE.—The position of Victoria, to the cooler climate than the more northern pro-Fires are agreeable mornings and vince. evenings, for eight months of the year. There is sufficient frost to freeze the surface of ponds for three or four days in winter (July), and snow falls occasionally on the low lands. The changes of temperature are occasionally rapid, but the "hot winds" are annually of brief duration. Port Phillip resembles, in its summer season, Baden, Marseilles, and Bordeaux; its winter, Palermo or Buenos Ayres; its fluctuations of temperature, those of Montpellier, and its annual mean is that of Naples. According to Count Strzelecki, the annual mean temperature of Port Phillip, is 61.3; mean for summer, 69.4; for winter, 53.3; summer maximum, 906; summer minimum, 48.8;

^{*} Port Phillip in 1849, by Dr. Clutterbuck, nine

rather more than 61°, or about 12½° higher warmth of the air afford an almost daily than the mean temperature of Croom's Hill, access to the open country, and there ap-Greenwich, England. In the reading-room pears, in the general buoyancy of the popuof the Mechanics' Institute, at Melbourne- lation, a degree of enjoyment of existence fronting the south, and free of the sun—the far beyond what is usually exhibited in the thermometer, in the hottest summer, rarely duller climes of the fatherland." In the exceeds 75° Fahrenheit. The summer even- western parts of the province, where Tasings are in general clear and cool, the "hot mania does not intercept the breezes and wind" seldom has longer duration than one clouds from the great southern ocean, the day; and the number of heated wind days temperature is lower, and the annual quanin summer, is about twenty, of which, one-tity of rain greater than at Melbourne. For third are oppressively hot; but in a well- the following table I am indebted to Mr constructed brick or stone dwelling, with Westgarth, a merchant at Melbourne, who proper care to prevent the ingress of the has materially contributed by his writings to heated draft of air, but little disagreeable the advancement of the province which he sensation is experienced. For ten months has adopted as his home.

Warmest month, November, coldest, in the year, says Mr. Westgarth, the climate The mean annual temperature is is unexceptionable, "the dryness and genial

Meteorological Register for Melbourne, 1845-6, 130 feet above the level of the sea, lat 38° 18' S.

	Thermometer				Barometer		Rain.			
Months.	8½ A M	2∤ РМ	Wet Thermo- meter	Highest	Lowest	Mean at 2} P M	Number of Days	Inches fallen	Maximum in one day	
July 1845	50 29	55 48	53 25	30 43	29 55	29 98	16	5 50	1 81	
August	-	57 38	53 77	30 22	29 48	29 72		1 36		
September "	56 10	63 50	59 66	30 45	29 52	30 05	9	1 27	0 76	
October	58 83	65 38	60 77	30 24	29 62	30 00	10	2 34	1 12	
November	61 70	69 00	64 53	30 08	29 50	29 78	15	3 99	1 42	
December ,	65 03	73 09	66 74	30 10	29 61	29 82	3	017	0 11	
January . 1846	66 19	73 48	66 41	30 10	29 66	29 36	5	2 12	1 01	
February . "	63 85	72 32	65 67	30 23	29 61	29 83	6	1 67	1 13	
March	61 83	68 74	63 09	30 19	29 66	29 92	6	1 30	0 92	
April "	57 13	64 20	60 30	30 20	29 55	29 89	11	2 27	0 35	
May "	50 64	56 12	54 54	30 30	29 54	29 91	17	3 79	1 02	
June "	46 96	54 70	52 56	30 31	29 70	30 09	11	1 20	0 32	

Note -No Thermometrical return obtained for August at 81 A w

The "hot winds" generally commence about the middle or end of November, and of New South Wales, is occasionally deterecur, at intervals, throughout the summer, until towards the end of February. At Melbourne, the hot wind has a NN.W. direction during the summer; but the winds from the same quarter, in winter, are cold. During the prevalence of the hot winds, the sky is generally cloudless. the warmth materially abates after sunset. The scorching blasts are succeeded by a strong breeze from the southward, which occasions a fall in the thermometer of twenty to thirty degrees. During winter, snow sometimes covers the ground to the depth of three inches, and ice is formed of the thickness of a shilling It will be observed, that more rain falls at Melbourne than in London. means of the Australian Alps any desirable neglect. Licensed butchers are hable to degree of cold may be obtained even in be fined for slaughtering or exposing for qummer.

The climate of Victoria, as well as that riorated by a disease known as "catarrh," which breaks out in some localities among the sheep, and will destroy in three or four weeks, four or five thousand sheep in a flock There does not seem to be any mode of checking the disease; and when it occurs, the flock-master has to resort to the "boiling down" system The "scab" and "foot rot," also cause mortality in sheep, and there are stringent colonial laws to prevent the disease called "scab" spreading; sheep are prohibited being driven on the common roads, except in the month of February, notice must be given of the disease; and other stringent regulations must be adopted, By subject to penalties of £10 to £20 for sale infected sheep.

CHAPTER III.

POPULATION—EDUCATION—RELIGION—GOVERNMENT AND INSTITUTIONS.

Population has been extraordinarily augmented, the comparative progress of increase in the inhabitants is thus shown, between the years 1836 and 1850.—

Places	1836	1841	1846	1850
Melbourne, city Country districts .	224	4,479 7,259	10,954 21,921	15,000 35,000
Total	224	11,738	32,875	50,000

Note -The population for 1850 is only estimated

The nationality shows that, of the total population in 1846, there were born in the colony, 3,855 males, 3,728 females; in England, 7,407 males, 2,693 females; in Wales, 83 males, 38 females; in Ireland, 5,037 males, 4,089 females, in Scotland, 2,757 males, 1,468 females; in other British dominions, 800 males, 603 females, in foreign countries, 245 males, 76 females 20,184 males, 12,695 females = 32,879 The classification of occupations shows in commerce, trade, &c., 2,254, agriculture, 1,722. grazing—management, of sheep, 4,666, of horses and cattle, 1,334, horticulture, 178, other labourers, 2,673. Mechanics and artificers, 3,635, domestic servants, 1,201 males, 2,136 females; clerical profession, 29, legal ditto, 96, medical ditto, 106, other educated persons, 476. All other occupations, 1,983. Residue of population, 25,232. The civil condition in 1846 was, free-born in the colony, or arrived free, 17,553 males, 12,488 females; other free persons (meaning thereby those who had formerly been prisoners), 2,363 males, 202 females. Bond, holding tickets of leave, 230 males, 5 females, in government employ, 18 males; in private assignment, 20 males.

The prison population had its origin in the circumstance of the Port Phillip province being a district of New South Wales. The in 1846 each ward was thus tenanted:inhabitants have been very strongly adverse to the introduction of convicts, and recently the superintendent, Mr. Latrobe, was necessitated to prevent the debarkation of prisoners from two ships which had been despatched direct from England with convicts who had gone through a large probationary period in penitentiaries in the United Kingdom. The

feeling evinced against the introduction of criminals, however great may have been their alleged reformation, was quite as strong as that exhibited by the inhabitants of the Cape of Good Hope By this time (June, 1850) there is, most probably, no trace in Victoria province of the convict system.

We have no returns of the number of the aborigines within the limits of the province. Their respected "Protector," Mr Robinson, during various journeys, found on the banks of the principal rivers a comparatively dense aboriginal population. There are several mixed breed, or "half castes," of both sexes. According to the census of 1846, the

white population was thus distributed:-

County or District	Males	Females	Total
Bourke County	9,440	7,890	17,330
Grant "	2,359	1,531	3,890
Normanby " .	1,455	812	2,267
Gipps Land District	612	240	852
Murray " .	1,142	416	1,558
Western Port "	2,516	1,009	3,525
Portland Bay	2,675	798	3,473
Total	20,199	12,696	32,895

The key, with numbers attached to the excellent map of Mr Ham, published at Melbourne in 1847, gives the names of the landed proprietors, and of the squatters in each division In Bourke county the number of proprietors was then 69, in Grant county, 72, in Normanby county, 72, in Western Port district, 192; the Murray district, 149, Wimmera district, 67, Portland Bay district, 232: and Gipps Land. 44. Mr. Ham adds a district which he terms the Tumut district, between the Murray river and the Murrumbidgee, but this region belongs to the territory of New South Wales.

Melbourne city is divided into four wards:

Name	e of	w	arc	1		Males	Females	Total
Gipps . Bourke	•		:	•	:	1,738 976	1,602 929	3,340 1,905
Lonsdale La Trobe	:	:	•	:		1,481 1,557	1,176 1,495	2,657 3,652
•	То	tal				5,752	5,202	10,954

Of the population of the city of Melbourne good indication of augmenting prosperity females, 1: in government employment, province males, 7.

in 1846, there were—born in the colony, or The various eligible positions on the coast arrived free, males, 5,551, females, 5,161. and on the interior rivers for maritime and other free persons—males, 218, females, 38. military stations, will cause an equable dif-Bond—holding tickets of leave, males, 18, fusion of wealth and civilization over the

The town population, irrespective of Melbourne city, is now increasing, and affords a by ages, throughout the province

The following table shows the population.

Abstract of the Population on the 2nd March, 1846, in each of the Counties and Commissioners' Districts

			Males				1	remale	4		lot	als	Gene
Countries	Under 7 Years	7 and under 14	14 and under 21	21 and under 45	45 and up wards	7	7 and under 14		21 and under 45		Males	Ге- males	ral Total
Bourke Grant	2518 515 182	962 153 98	538 135 61	4843 1377 935	159		917 152 91	680 148 45		51	9440 2339 1455	1531	17331 3870 2267
Total	3315	1213	734	7155	817	3278	1160	873	4561	362	13234	10234	23468
Commissioners' Districts, beyond the Limits of Location													
Gipps Land	98 169 275 354	32 40 80 135	31	390 810 2117 1726	92 133	139 289	24 32 50 86	30 27	205 418	10 15	612 1142 2677 2519	240 416 799 1006	3476
Total	896	287	255	5043	469	876	192	128	1193	72	6950	2461	9411
Total Population	4211	1500	989	12198	1286	4154	1352	1001	5754	434	20184	12695	32879

Abstract of the Population on the 2nd March, 1846, in the City of Melbourne, and in each Town and Village

Males					Females					Totals		Gene	
Towns and Villages	Under 7 Years			21 and under 40		Under 7 Years			21 and under 45		Malcs	Fe- males	ral Total
Melbourne (city)	1,561	617	331	2,959	286	1,608	592	480	2,346	174	5,754	5,200	10,954
Ashby*	28	6		43	2	26	6	5	30	4	79	71	150
Belfast*	36	8	5	89	13	40	5	7	63	3	151	118	269
Brighton*	117	28	9	106	12	65	38	16	111	7	272	237	509
Brunswick*	23	10	5	38	9	23	9	9	31	7	85	79	164
Geelong (North)	111	35	40	380	28	107	45	43	180	13	594	388	982
Geelong (South)	48	20	7	101	12	70	19	18	85	- 6	188	200	388
Irishtown*	28	4	2	34	3	23	4	7	29	1	71	64	135
Newtown*	53	6	5	59	4	44	14	11	57	3	127	129	256
Portland	68	26	8	163	13	80	35	13	100	4	278	232	510
Richmond*	62	20	8	82	13	74	30	14	93	6	185	217	402
Williamstown	45	14	8	93	12	58	9	11	70	2	172	150	322
Total urban Population	2,180	794	428	4,147	407	2,218	806	634	3,195	232	7,956	7,080	15,041

Note - The mark (*) attached to the name of any town or village, indicates that it is situated on private property

The population, by ages, of the province was

In 1846, the population in the following towns is thus shown -

Years of	Males	Females					
Under 7 7 and under 14 .					٠	2,689 1,500	4,154 1,352
14 ,, ,, 21 .	:	:	:	:		989	1,001
21 " " 45. 45 " " 60.	:	:	:	:	:	12,198 1,122	5,754 393
60 and upwards	•			•	•	164	41

Name of Town	Males	Females	Total
Geelong Belfast	1,149 359	916 242	2,065 601
Portland	278	232	510
Wilham's, about	_		250
Alberton "	_		100

Proportion of married to single in 1846:—

Counties and Districts	Man	rned	Sın	gle
Counties and Districts	Males	Fem	Males	Pem
COUNTIES :-				
Bourke	3,264	3,383	6,196	4,507
Grant	716	696	1,623	835
Normanby .			,	
DISTRICTS:				
Portland Bay	402	403	2,273	395
Western Port	506	474	2,011	534
Murray .	224	222	918	194
Gipps' Land	107	114	505	126
Towns :-				
Melbourne	2,107	202	3,665	3,000
Geelong .	274	256	507	333
Portland .	101	99	177	133
Belfast .	101	107	251	135

Note -There are no returns for Normanby

The total married was—males, 5.564: females, 5,656: unmarried, males, 14,620; females, 7,039. Bond population in 1846: holding tickets of leave, males, 230; females, 5: in government employment, males, 18. in private assignment, males, 20 = 268.

Religious denominations	1841	1846
Church of England	6,190	14,921
" Scotland	2,044	5,856
Wesleyan Methodists	650	1,597
Other Protestant dissenters	346	1,169
Roman Catholics	2,441	9,075
Jews	57	117
Mahomedans and Pagans .	10	27
Other persuasions	_	117

In 1847 the province was divided into sixty-nine parishes.

Number of houses in 1841 and 1846 —

Year	Stone or Brick	Wood
1841	450	1,040
1846	1,835	3,363

The number shingled, i.e. roofed with small pieces of wood, was, in 1846, 3705 and of slated, 76. The number of houses finished was 4,547; unfinished, 651; inhabited, 5,070; inhabited, 128.

There is an abundance of the necessaries of life, and great comfort among all classes of the people. Dr. Clutterbuck, the most recent authority on the state of the colony (1849), in evidence of the condition of the working classes there, points "to the cottage of the mechanic or daily labourer, each surrounded by his family of children; on the breakfast table are seen a large dish of rumpsteak, or mutton chops, eggs, fresh butter, excellent bread, and tea or coffee; the dinner table is equally bountifully supplied, the cup Parker, West Strand.

'oaming with colonial ale, being a neverailing accompaniment, tea and a substantial upper succeed. Think of these things, ye uffering poor at home. Fancy yourselves also strolling in the bush, and arriving at a station where, on some occasions, you see ore-quarters of mutton lying about in a state of putridity, and ask yourselves the question-'whence this shameful waste of he bounties which God has given?' and obtain the reply of the master-'our men refuse to eat this portion of the animal, and owing to the scarcity of labour we are compelled to submit to their dictation."*

The weekly rations allowed to shepherds or hut-keepers consist of flour, 10 lbs.; meat,

12 lbs; tea, ½ lb.; sugar, 2 lbs. It is computed that the cost of maintenance for a man is five shillings per week. The duty of the hut-keepers, of whom there is usually one to each flock, is to shift the hurdles daily, prepare the daily meals for the shepherds, and watch the sheep by night from a httle "crib box" One shepherd usually attends 1,000 sheep; but in an open country one man may have 1,500 or 2,000 confided to his care. According to Dr. Clutterbuck the current rate of wages, in addition to rations, given by squatters in 1849, wasshepherds, £20 to £25; hut-keepers, £18 to £22; bullock drivers, £24 to £28; married couples, with a family, £25 to £30; ditto, without encumbrance, £34 to £40, single females, £16 to £20; wheelwrights, £25 to £30; carpenters, £30 to £40 sterling per Farm servants, 10s. per week; sheep shearers, 10s to 13s. for every 100 sheep; or without rations, 15s. per 100 sheep. The town rates of wages are-female cooks, £18 to £24; men ditto, £20 to £28; housemaids, £16 to £18; nurses, £12 to £16; grooms, £25 to £32, laundresses, £20 to £28 sterling per annum. Charwomen, 2s. 6d. to 3s.; and needlewomen, 1s. per day. Washing, 2s 6d to 3s. per dozen.

Retail Prices of various Commodities -Beef and mutton 2d., veal and pork 5d. to 6d., bacon 8d to 1s., tea 1s. 6d. to 3s., sugar (fine moist) 3d. to 4d., butter 10d. to 1s 2d., cheese 7d. to 8d per lb.; ale (colonial), 5d. per quart; bottled ale and porter (English), 10s. to 12s. per dozen; flour (fine) £10, seconds £9, per ton; wheat, 3s. to 5s. per bushel; potatoes, 3s. to 4s. per cwt.; milk, 4d. per quart.

In the year 1840, flour was sold for £90 per ton; bread, 2s. 6d. the quartern loaf; * Port Phillip in 1849, p. 108. London: 1850.

butter, 3s. per lb.; cabbages, 6d. each; potatoes, 1s. per lb. Dr Clutterbuck says that pupils, in different parts of the province. at this period he employed labourers, in the each; but then he adds, "port and cham- lows:pagne were among the ordinary luxuries of the artisan."

EDUCATION.—According to the decision of the governor of New South Wales respecting education, it was ordered, on the 24th of September, 1841, that in towns or places of which the population amounts to 2,000 or upwards, local government aid be given for education, to any school, at a rate not exceeding one penny each day for the actual attendance of every child in the school, station of life as to render it necessary to extend to them the assistance of govern-Where the population does not amount to 2,000, the aid afforded may be as high as one penny farthing per diem, or receiving aid from government within five The government and cannot exceed the sum raised for the support of the school from private sources, nor be in excess of £25 per quarter, unless the number of children attending the school, or the poverty of their parents, be such as to make a special exception in favour of it necessary.

School inspectors, appointed by government, visit the different schools in their respective districts at uncertain times, but never less than twice in every month, muster the children, and compare the numbers present with the numbers entered on the inspectors report to government any irregularity or misconduct which may fall under their notice. Police magistrates act as inspectors of schools. Quarterly lists are required by the government from each school, containing the names of all children who attend the school, their ages, and also the names, places of abode, trade or calling of their parents or nearest friends.

A diocesan grammar school has been recently established at Melbourne, through the instrumentality of the bishop. The annual fee is £10 10s.; entrance fee, £2 2s., and £1 1s. for every additional boy of the same family. persons without distinction, and the object for girls, and two for boys at Melbourne.

There are about forty schools, with 5,000

In 1846, the state of education, according erection of a house, at a cost of 15s, per day to the census of that year, was as fol-

State of Education	Males	Females	Total
UNDER 21 YEARS.			
Cannot read .	4,005	3,863	7.868
Read only	1,052	1,138	2,190
Read and write	1,643	1,506	3,149
ABOVE 21 YLARS.	-		•
Cannot read .	1,797		2,785
Read only .	1,484	1,274	2,758
Read and write	10,203	3,926	14.129

Religion.—The contrast between the carwhose parents or friends are in such a her and present state of society, is very visible; a higher moral tone is gradually spreading in the community, and this improvement, in the estimation of many, dates from the arrival (in January, 1848) of the bishop, "one in whom are united the highest learnone penny halfpenny, if there be no other ing, humility, and picty." Heretofore the people at the distant stations in the interior, had existed in almost a heathenish state; the good bishop has ridden many hundred miles to exhort, and instruct, to celebrate the holy rites of baptism and confirmation, and to administer the blessed sacrament. lordship was accompanied from England by three clergymen, has ordained four more since his arrival, and as fast as practicable, is locating ministers of the Gospel at eligible stations in the country. Prior to the arrival of the bishop (Dr. Perry, formerly district preacher of St. Paul's, Cambridge) only one clergyman had been appointed by governregisters of daily attendance kept by the ment to superintend the Church of England masters or mistresses of the schools. The in this large district. From 1840 to 1848, this zealous man (the Rev. Adam Compton Thompson) had to perform the whole of the duties, and has been known in one day to perform the burnal service over six persons, the marriage ceremony for three couple, to baptize four children, and to visit the sick in Melbourne and its suburbs. It cannot be denied that grievous neglect has been evinced in this matter, for primary functionaries in a colony founded by a Christian people, before the appointment of judges, magistrates, police, and custom-house officers, ought to be the ministers of the Gospel.

The efforts recently made by the British The school is open to all government for the protection and instruction of the aborigines of Australia, is highly is to give a sound scriptural and general creditable. During the secretaryship of education. There are also two private schools Lord Glenelg, the appeals of the London Aborigmes Protection Society were received

with attention, and protectors were appointed print it, and it appeared under the title of to watch over, instruct, and if possible convert to Christianity the dark-coloured migratory races among whom we have established ourselves. The Port Phillip territory is divided into districts, in each of which is placed an assistant protector, and a medical officer, or assistant, with a homestead, and reserve of land, for the exclusive use of the aborigines. Agricultural operations are now carried on by the natives. Those who are able are expected to give an equivalent for what they receive; the sick, aged, and young children are rationed. A missionary is appointed to daily, and the Victoria Colonist I believe each establishment, an overseer to superintend agricultural operations, and a constable, to keep order. The salary and allowances of before me (Vol. ni. No. 106, July 11, 1849) the protector-in-chief are £600 per annum. The salary of the assistant-protector is £250 per annum, and ten shillings and sixpence a day allowance. They are to travel among and sojourn with the native tribes, and by every means in their power endeavour to induce them to adopt a settled mode of exist-They are required to furnish statistical and other information connected with the native tribes of their respective districts; the boundaries and aboriginal names of districts occupied by each tribe, the differences of language, customs, and habits, the names of mountains, lakes, rivers, and other localities; a census distinguishing the number of each family, name, age, sex, tribe, and chief of tribes, whether warrior, councillor, or elder, The Port Phillip province is divided for the above-named purposes, into four districts, viz, the Goulburn River, Mount Macedon, Portland Bay, and Western Port, or Melbourne district. At the homestead on the Goulburn river, 110 miles from Melbourne, the aborigines had, in 1842, cut down, grubbed up, and burned 450 acres; cleaned and broken up for cultivation, about twenty acres; and obtained good crops of wheat, oats, and barley, and about two tons of potatoes. They have built good houses for the assistant protector, medical officer, and overseer, and constructed huts for themselves. The women manufacture baskets, mats, string, &c.

The Newspaper Press of the province is coeval with the formation of the settlement, for a newspaper seems nearly as essential to an Englishman as the air he breathes.

manuscript; the enterprising projector, how- by a judge and supreme court. ever, quickly obtained from Van Diemen's

the Port Phillip Patriot. In the early part of 1837, the Port Phillip Gazette was issued. dited by Mr. Arden; and soon after a third appeared, styled the Port Phillip Herald. Each of these journals was issued bi-weekly, by which arrangement the colonists had even then the opportunity of having a newspaper on their breakfast tables every morning. Four newspapers are now issued at Melbourne daily (Sundays excepted), namely, the Morning News, Daily News, Patriot, and Argus. At Geelong the Advertiser is issued weekly. These papers are as large as the Globe or Standard The copy of the Argus contains fifteen columns of advertisements. The "editorials" of those papers, their "original correspondence," poetry, and selected articles, typography, and paper, place them on a par with the journals of the United Kingdom, except the leading metropolitan newspapers. The price of these daily Port Phillip papers is fifteen shillings per quarter, or sixpence for a single copy; for advertisements, six lines and under, three shillings, for every additional line three pence. The Portland district has three ably conducted newspapers, two printed and published at Portland and one at Port Fairy. A Port Phillip Magazine, and other periodicals, still further attest the rapid extension of the "fourth estate," whose progress is indeed unequalled in any other portion of the British Empire.

GOVERNMENT.—Under the provisions of the bill now before Parliament, Victoria will have a government appointed by the crown, and a Legislative Assembly similar, in constitution, to that of New South Wales, and the other Australian colonies. It is uncertain whether any alterations will be made in this bill in the House of Lords, and therefore it is unnecessary to give any other details than those already given (See p 550.) It is understood, that her Majesty's ministers do not now propose to vest the control of the waste or crown lands in the Australian legislatures, which conforms to the opinion I ventured to express in the published division of this work on New South Wales. (See p. 554-5.)

The Laws, are the same as in England; The first newspaper, in 1836, appeared in and administered, as in New South Wales

Institutions.—Several charitable, reli-Land the requisite materials wherewith to gious, literary, and benevolent societies, such Steam Navigation Company; public hos- ducting a profitable business.

as have been described in the previous colo- pital, &c. The Port Phillip Bank was wrecked nies. Among other associations, may be in the general disasters of 1842-3. The promentioned a Mechanics' Institution at Mel-prietary of the Port Phillip Bank, in 1840-1, bourne, and another at Geelong; an Aux- elected me a London director, and I recomiliary Bible Society; a Theological Educa- mended a course of procedure which met the tion Society; Temperance Society, Harmonic approval of their intelligent agent in Lon-Society; Union Benefit Society, Independon, Mr. Gardiner, but it was not followed dent Order of Odd-Fellows; a Commercial in the colony. There are branches of the Exchange; an Auction Company; Fire and Union Bank of Australia, and of the Bank of Marine Insurance Company, Port Phillip Austral-Asia, which are stated to be con-

CHAPTER IV.

PRODUCTS-WOOL, LIVE STOCK, TALLOW, PRESERVED MEAT, WINE, FLAX, TIMBER FISH, &c -COMMERCE-IMPORTS-EXPORTS-REVENUE-EXPENDITURE-LANDS-EMIGRATION AND SQUATTING INTERESTS

PRODUCTS.—The first in value, and present foreign countries, for the past half century, importance, as in New South Wales, is wool. and for which I am indebted to the respected The quantity imported into the United King- wool brokers, Messrs. C. and I. D. Jacomb, dom, from Port Phillip and Portland Bay, of Basinghall-street, London. It will be since 1846, previous to which period many observed, that the imports from Spain and of the Port Phillip and Portland Bay wools Germany, our former great sources of supply, were shipped for England, via Van Diemen's have materially decreased of late years, while Island, was in 1846, 20,956; 1847, 27,876, the production of our colonies has largely 1848, 37,351; 1849, 45,348 bales. The and steadily increased. balcs average about 280 lbs. each The exports of wool from Victoria province to price of all wools, Port Stephens fleeces, that the United Kingdom, in 1849, amounted a few years since fetched 5s to 6s. a pound, to 12.697,440 lbs. wool into the United Kingdom for the same London price currents the Australian wools year, were 298,444 bales, of which Port are distinguished by the words-Sydney, Phillip and Portland Bay contributed nearly Port Phillip, Van Diemen's Land, Adelaide, one-sixth part. Sydney sent 50,584; Van Swan River, and New Zealand, to represent Diemen's Island, 17,926; South Australia, the different colonies. The usual classifica-10,400; Western Australia and New Zea- tion of the qualities of the wool, and the land, 1,474 bales. The total exports of range of price will be seen in the following wool from the Austral-Asian settlements extract from the London sales for May, during the past year, consisted of 125,732, 1850, of wools from Port Phillip, which, or nearly one-half the entire importations although improving, are still inferior to the into the United Kingdom; while, in 1812, Sydney wools, but superior to those from only three bales were imported from Australia. The progress of the wool trade is so Extra flocks, in first-rate condition, 1s 8d to remarkable—the augmented importation has 1s. 111d per lb; good flocks, in fair condition, such an important influence on one of the 1s. 6d. to 1s. 8d.; average do, 1s $3\frac{1}{2}d$. to largest branches of English manufacture— 1s. 6d.; ordinary and ill-conditioned flocks, on the domestic comfort of the people—on 1s. 2d to 1s. $3\frac{1}{2}d$.; scoured clothing, 1s. 6d. the extension of our foreign commerce, and to 2s.; scoured lambs', 1s. 7d. to 1s 10½d.; on the increased employment of shipping, handwashed and ordinary skin, 1s. 1d. to 1s. that I am induced to give the following $4\frac{1}{2}d$.; lambs' good, 1s. 6d. to 2s. 2d; lambs' statement of the quantities of wool imported inferior to average, 1s. 2d. to 1s 6d.; locks, from our various colonies, and from different broken, &c., 10d. to 15½d.; in grease, 8d. to 1s.

The augmented supply has reduced the The total imports of do not now bring more than 2s.

Importation of Wool in Bales into the United Kingdom during the following years.

1801 1,30 1802 35 1803 1 1804 16 1805 1,20 1806 5 1806 7 1808 11 1810 8 1811 1 1812 1 1813 — 1814 1 1815 16 1816 4 1817 — 1820 21 1821 42 1822 33 1824 39 1825 1,00 1824 99 1826 2,99 1827 66 1827 1830 3,99 1831 5,77 1832 6,33 1833 8,90 1834 10,03 1834 10,03 1835 12,75 1836 14,00 1837 19,56	151 - S	40 — — — — — — — — — — — — — — — — — — —			1 - 1 - 85 146 78 7 7		41 394 622 2,342 1,170 598 1,217 680 62 67 1,953	16,699 24,330 10,219 14,752 30,318 26,989 28,237 21,778 34,962 34,298 27,228	412 69 541 6,366 9,622 5,015 2,751 1,280 230 1,113 1,666
1797 1798 1799 1800 65 1801 1,30 1802 1803 1 1804 16 1805 1,20 1808 11 1806 1807 1808 11 1809 1810 1811 1812 1813 1814 1815 1816 1816 1817 1818 1819 17 1818 1820 1821 1821 1822 1823 1,00 1824 1825 191 1826 1827 1828 1829 1828 1829 1829 1821 1821 1823 1,00 1824 1825 191 1826 1827 1828 1830 1824 1830 1831 1831 1833 1834 10,33 1834 10,33 1835 11,956	,302				85 146 78 7		394 622 2,342 1,170 598 1,217 680 62 67 1,953	24,330 10,219 14,752 30,318 26,989 28,237 21,778 34,962 34,298 27,228	69 541 6,366 9,622 5,015 2,751 1,280 230 1,113
1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1810 1810 1811 1812 1813 1814 1815 1816 1817 1818 2 1822 1821 1822 1821 1822 1821 1822 1821 1822 1821 1822 1821 1822 1821 1822 1821 1822 1821 1822 1821 1822 1821 1822 1821 1823 1,00 1824 1825 1826 1827 1828 3,74 1830 1831 1831 1831 1831 1831 1833 1833	,302				85 146 78 7		622 2,342 1,170 598 1,217 680 62 67 1,953	10,219 14,752 30,318 26,989 28,237 21,778 34,962 34,298 27,228	541 6,366 9,622 5,015 2,751 1,280 230 1,113
1799 1800 1801 1,30 1802 1803 1804 1805 1806 1807 1808 121 1809 1810 1811 1812 1813 1814 1815 1816 4 1817 1818 1819 11 1820 1821 1822 1823 1,00 1824 1823 1,02 1824 1825 191 1826 1827 1828 3,07 1830 1831 1834 10,33 1834 10,33 1835 12,75 1836 1837 19,66	,302				146 78 7 — — 7		2,342 1,170 598 1,217 680 62 67 1,953	14,752 30,318 26,989 28,237 21,778 34,962 34,298 27,228	6,366 9,622 5,015 2,751 1,280 230 1,113
1800 65 1801 1,30 1802 3,2 1803 1 1804 16 1805 1,22 1806 56 1807 7 1808 12 1810 8 1811 812 1813 1818 26 1817 1822 34 1822 34 1822 34 1822 34 1823 1,00 1824 97 1826 2,96 1827 66 1831 3,79 1832 3,79 1833 3,99 1831 1,03 1834 10,33 1835 12,75 1836 14,04 1837 19,56	,302				146 78 7 — — 7		1,170 598 1,217 680 62 67 1,953	30,318 26,989 28,237 21,778 34,962 34,298 27,228	9,622 5,015 2,751 1,280 230 1,113
1801 1,36 1802 36 1803 1 1804 16 1805 1,26 1806 1807 7 1808 12 1810 8 1811 1812 1813 — 1814 1815 16 1816 4 1817 2 1820 22 1821 42 1822 34 1822 34 1823 1,00 1824 97 1826 2,99 1827 66 1828 3,06 1829 3,74 1830 3,97 1831 5,77 1832 6,33 1833 8,93 1834 10,33 1834 10,33 1835 12,75 1836 14,06 1837 19,56	,302				146 78 7 — — 7		598 1,217 680 62 67 1,953	26,989 28,237 21,778 34,962 34,298 27,228	5,015 2,751 1,280 230 1,113
1802 35 1803 1804 16 1805 1,20 1806 56 1807 1808 12 1809 1 1810 8 1811 1812 1813 1814 1815 16 1816 4 1817 1818 22 1823 1,00 1824 97 1826 2,99 1826 2,99 1827 68 1829 3,77 1838 3,00 1824 10,33 1834 10,33 1835 12,77 1836 14,07 1837 19,56	353			=	146 78 7 — — 7	_ _ _	1,217 680 62 67 1,953	28,237 21,778 34,962 34,298 27,228	2,751 1,280 230 1,113
1803 1804 1805 1,201 1806 1807 1808 1807 1808 1810 1811 1812 1813 1814 1815 1816 1817 1818 22 1821 1822 1821 1822 1821 1822 1821 1822 1821 1822 1821 1823 1,00 1824 1825 1826 1827 1828 3,74 1830 1831 1831 1831 1833 1833 1833 1833	184 — 164 — 203 — 564 — 128 — 128 — 14 — 3 — 9 — 3 — 70 — 151 — 47 — — — — — — — — — — — — — — — — —			_ _ _ _ _	78 7 —		680 62 67 1,953	21,778 34,962 34,298 27,228	1,280 230 1,113
1804 16 1805 1,26 1806 1807 1808 15 1809 15 1810 8 1811 1812 1813 1818 4 1815 14 1815 12 1818 22 1813 1818 22 1821 45 1822 33 1823 1,00 1824 97 1825 91 1826 2,96 1827 68 1828 3,06 1829 3,77 1838 3,78 1830 3,99 1831 5,77 1832 6,31 1833 1,03 1834 10,33 1835 12,77 1836 14,07 1837 19,66	164 — ,203 — 564 — 74 — 128 — 14 — 83 — 9 — 3 — 70 151 47 — —			=	$\begin{bmatrix} -7 \\ -7 \end{bmatrix}$	=	62 67 1,953	34,962 34,298 27,228	230 1,113
1805 1,26 1806 56 1807 1808 12 1808 12 1809 1 1810 8 1811 8 1812 1813	.,203 —			=	=,	=	67 1,953	34,298 27,228	1,113
1806 56 1807 1808 12 1809 1 1810 8 1811 1812 1813	564 — — — — — — — — — — — — — — — — — — —			=		_	1,953	27,228	
1807 1808 12 1809 1810 8 1811 1812 1813 1814 1815 1816 4 1817 1818 22 1820 1821 1822 34 1823 1,00 1824 97 1825 91 1826 2,99 1827 68 1829 3,70 1828 3,00 1829 3,71 1830 3,98 1831 5,77 1832 6,31 1833 1,93 1834 10,33 1835 12,77 1836 1837 19,66	128 — 14 — 83 — 9 — 3 — 70 — 151 47 — —			=			- 4-		1,000
1808	14	-		-	1 401		548	51,458	1,645
1809 1810 1811 1812 1813 1814 1815 1816 4 1817 1818 26 1819 17 1820 21 1821 42 1822 34 1823 1,00 1824 97 1828 1828 3,08 1829 1828 3,74 1830 3,99 1831 5,77 1832 6,31 1831 1,33 1,33 1,33 1,33 1,34 1,33 1,34 1,33 1,34 1,33 1,34 1,33 1,34 1,33 1,34 1,33 1,34 1,33 1,34 1,33 1,34 1,33 1,34 1,33 1,34 1,33 1,34 1,33 1,34 1,33 1,34 1,34	14		=		10	_	225	9,808	170
1810	9 — 3 — 70 — 151 47 —	=	_		3		1,753	21,418	5,385
1811 1812 1813 1814 1815 1816 1816 1817 1818 26 1819 17 1820 21 1821 1822 34 1823 1,00 1824 97 1826 2,96 1827 1828 3,00 1829 1827 1830 3,98 1831 5,77 1832 6,31 1833 1833 1834 10,33 1835 12,73 1836 1837 19,66	3 — 70 151 47 —	=	_	_	15		2,221	2,976	16,772
1813 1814 1815 1816 1816 1817 1818 1819 17 1820 22 1821 1822 34 1823 1,00 1824 97 1825 91 1826 2,96 1827 66 1829 3,77 1830 3,98 1831 5,77 1832 8,30 1834 10,33 1835 12,75 1836 14,03 1837 19,56	70 151 47		_		11		102	12,951	9,946
1813	151 - S	-	I —	_	10		_	10,735	25,970
1814 1815 16 1816 4 1817 — 1818 22 1819 17 1820 27 1821 42 1822 33 1823 1,00 1824 97 1825 97 1826 2,99 1827 66 1829 3,74 1830 3,99 1831 5,77 1832 6,33 1833 8,90 1834 10,33 1835 12,73 1836 14,00 1837 19,56	151 - S		-	-			_	_	_
1816 4 1817 7 1818 26 1819 17 1820 21 1821 42 1822 34 1823 1,00 1824 97 1826 2,96 1827 66 1828 3,06 1829 3,74 1830 3,98 1831 5,77 1832 6,31 1833 1,93 1834 10,33 1835 12,73 1836 14,00 1837 19,66	47 _	40	1 -	_	9		9,807	33,622	13,953
1817 1818 26 1819 17 1820 21 1821 42 1822 34 1823 1,00 1824 97 1825 91 1826 3,08 1829 3,74 1830 3,99 1831 5,77 1832 6,31 1833 8,90 1834 10,33 1835 12,77 1836 14,00 1837 19,56	_ _	92 —		_	11	_	8,964	24,649	6,351
1818 221 341 1820 271 1821 421 1822 34 1823 1,000 1824 971 1826 2,900 1827 681 1829 3,771 1830 3,981 1831 5,771 1832 6,31 1833 8,901 1834 10,33 1835 12,771 1836 14,001 1837 19,565 1838 21,956	255 1			-	10		8,047	14.795	2,876
1819 17 1820 21 1821 41 1822 33 1823 1,00 1824 97 1825 11 1826 2,99 1827 66 1829 3,74 1830 3,99 1831 5,77 1832 6,33 1833 8,90 1834 10,33 1835 12,73 1836 14,00 1837 19,66	255 1	_	-	_	20		13,761	31,418	4,699
1820 21 1821 42 1822 34 1823 1,00 1824 97 1825 97 1826 2,96 1827 66 1828 3,06 1829 3,74 1830 3,99 1831 5,77 1832 6,31 1833 8,94 1834 10,32 1835 12,77 1836 14,00 1837 19,66		70 —	_	I	22		24,092	43,803	6,582
1821		50		l —	27		12,827	27,664	9,046
1822 34 1823 1,00 1824 97 1825 91 1826 2,90 1827 66 1828 3,00 1829 3,74 1830 3,99 1831 5,77 1832 6,37 1833 8,90 1834 10,33 1835 12,77 1836 14,00 1837 19,56 1838 21,95		80 -		_	29		14,609	17,681	475
1823 1,00 1824 97 1825 191 1826 2,99 1827 68 1829 3,76 1830 3,99 1831 5,77 1832 6,31 1833 8,96 1834 10,32 1835 12,77 1836 14,00 1837 19,66		81	I —	l —	58		24,615	34,845	592
1824 97 1825 99 1826 2,96 1827 65 1828 3,06 1829 3,77 1830 5,77 1831 5,77 1832 6,3 1833 4,03 1834 10,3 1835 12,73 1836 14,00 1837 19,66		07	_	I —	77	. —	31,786	29,972	626
1825 91 1826 2,96 1827 66 1828 3,06 1829 3,74 1830 3,99 1831 5,77 1832 6,37 1833 8,99 1834 10,33 1835 12,73 1836 14,00 1837 19,56 1838 21,95	,001 90	08 —	_	l —	32	_	35,892	21,595	5,668
1826 2,96 1827 68 1828 3,06 1829 3,77 1830 3,98 1831 5,77 1832 6,31 1833 8,96 1834 10,33 1835 12,73 1836 14,00 1837 19,66		19 —	-	_	43	_	44,035	25,104	2,459
1827 1828 1829 3,77 1830 1831 5,77 1832 6,31 1833 8,99 1834 10,33 1835 12,73 1836 14,06 1837 19,56 1837 19,56 1838 21,95		80 —		_	33	_	82,284	41,032	4,769
1828 3,06 1829 3,74 1830 3,99 1831 5,75 1832 6,31 1833 8,99 1834 10,33 1835 12,77 1836 14,00 1837 19,56 1838 21,95		25 —		_	175		30,219	8,097	2,665
1829 3,74 1830 3,98 1831 5,77 1832 6,31 1833 8,96 1834 10,33 1835 12,73 1836 14,00 1837 19,66	696 56	67 —	_	_	54		60,630	19,495	2,258
1830 3,98 1831 5,77 1832 6,33 1833 8,99 1834 10,33 1835 12,73 1836 14,04 1837 19,56 1838 21,95		09	-	_	51	_	62,901	19,043	1,644 266
1831 5,75 1832 6,31 1833 8,90 1834 10,33 1835 12,75 1836 14,00 1837 19,56 1838 21,95		08	-	_	50		40,314	18,777	
1832 6,31 1833 8,90 1834 10,33 1835 12,73 1836 14,04 1837 19,56 1838 21,95		05 -	-	-			74,496	8,218	2,319
1833 8,90 1834 10,33 1835 12,73 1836 14,06 1837 19,56 1838 21,95	5,792 5,80	04	 -	l —	263		60,782	22,	675
1834 10,33 1835 12,73 1836 14,04 1837 19,56 1838 21,95		70 -	-	l —	360		55,185		684
1835 12,73 1836 14,08 1837 19,56 1838 21,95	3,908 6,04	40	-	I —	511		72,776		714
1836 14,08 1837 19,56 1838 21,95			1 -		647		62,553	1	339
1837 19,56 1838 21,95	2,737 7,05	25 —	_	-	824	1,397	69,632	8,582	2,772
1837 19,56 1838 21,95	1,055 8,7	28	l —	_	1,716	3,493	90,450	20,	451
1838 21,95			1 _	l	1.812	5,663	53,359	11,011	2,151
			_	_	1,996	6,117	79,320	8,577	2,694
	944 14,6		1,524		3,247	5,674	68,682	11,730	4,753
1840 25,82			3,484		3,477	7,611	63,278	5,273	1,569
1841 30,28			8,798		4,191	10,563	62,483	5,287	2,716
1842 26,66			12,307		6,521	11,876	47,510	3,118	1,887
1843 37,25			14,957		7,734	6,594	53,495	2,715	1,680
1844 38,07	077 15,12		17,705		8,659	6,741	70,305	5,682	6,341
1845 37,82			22,815		13,765	10,065	61,777	5,188	3,267
1846 39,11			5,994	1,686	11,626	11,279	52,922	4,809	3,274
1847 41,92			7,133	853	13,566	8,123	41,396	1,956	3,005
1848 46,61			9,827	1.056	13,409	16,923	48,478	403	2,922
	,014 10.08		10,400	1,474	20,345	11,041	45,839	516	4,420
1850		10,010	10,400	1,712	20,020	11,011	10,000	0.10	7,720
1851	,584 17,92					-	_		
Average weight.		Ahout	280 lbs.		<u> </u>	3 (lwt.	1 to 2 Cwt.	

Note—There are no returns for the year 1813, owing to the London Custom House records being destroyed by fire—From 1833 to 1838, inclusive, separate Returns were not kept of Wool importations from the ports of Fort Phillip, South Australia, and New Zealand, and from 1839 to 1845, inclusive, many of the Wools belonging to these colonies were shipped out Van Diemen's Land.

Importation of Wool in Bales into the United Kingdom during the following years.

Importation of Wool in Bales into the United Kingdom during the following years.											
Years.	Russian	Italian	Turkey, Syria, Egypt, &c	Peruvian, Sheeps', and Alpaca	Buenos Ayres and Cordova	United States	Danish.	Sundries	Goats'	Total Bales	
1796	21	7	8	17	_		7	32		17,244	
1797	19	41	42			_	8	380	_	25,281	
1798	_				_			130		11,512	
1799		30	28	1				320	-	23,839	
1800	25	84	76	l —			14	473	- 1	42,440	
1801	_	198	187	73	_	_	_	221	- 1	34,668	
1802	1	186	174	210				1,326	-	34,601	
1803	241	940	880	126	_	-	112	700	- 1	26,833 37,598	
1804	482	627	605	24	_		205	230	-	37,598	
1805	728	126	101	132	_	-	257	121	-	38,146	
1806	207	60	58	110	_	_	57	64	-	31,967	
1807	1,048	54	52	307	_	_	305	334	-	55,832	
1808	27	130	124	407	_	_	6 85	22	_	11,056	
1809	267	515	508	1,069	_			811 142	-	31,828	
1810	868	683	676	601	_	_	207		_	25,244	
1811	29	351	345	447			92	11 12	-	24,206	
1812 1813	259	6	4	261	_		92	12		37,352	
1814	1,031	426	421	112		_	307	3,801		63,599	
1815	876	296	292	274	_		250	3,950		46,156	
1816	699	262	257	1,308			220	1,476		29,997	
1817	582	179	178	956			125	5,636		57,554	
1818	1,666	1,015	1,051	2,358			510	10,850		92,374	
1819	1,580	1,494	1,507	174			484	3,800		58,923	
1820	150	334	380	25			20	1,459	_	35,555	
1821	185	8	17	52			42	1,836	_	62,952	
1822	554	5	210	32		_	170	4,356		68,142	
1823	400	2	4	11			208	2,142		67,863	
1824	631	377	395	852		_	220	2,236	_	77,843	
1825	5,362	1,430	1,452	1,054		_	897	5,055		144,652	
1826	1,650	534	547	5,068			320	1,189		54,894	
1827	2.607	846	872	556		-	372	2,543		91,496	
1828	2,706	425	434	929	-	_	715	1,214	_	96,358	
1829	1,664	8	17	70	-	_	321	818	-	69,659	
1830	1,680	14	29	64		-	323	3,672	-	98,818	
1831	348	_	_	318		-	_	1,389	-	97,371	
1832	997	_		2,445	-	-	I —	639	-	83,793	
1833	4,114	1,112	_	1,913	l —	 	1,241	3,351	_	120,680	
1834	6,910	4,761	14,983	8,498	-	I —	1,547	760	-	136,277	
1835	9,134	2,816	6,660	10,064	_		1,175	2,295	-	145,113	
1836	15,072	3,754	14,714	16,653	_	I —	4,488	14,762	-	208,336	
1837	15,116	3,314	8,421	30,030	_	-	1,059	591	_	162,847	
1838	8,826	4,434	4,249	30,378	_	_	1,388	1,593	-	181,772	
1839	17,847	5,197	8,039	37,854	_	-	1,232	2,108	-	205,469	
1840	11,776	4,055	5,492	40,000		-	2,199	320	5.621	186,079	
1841 1842	10,825	3,949	2,095	55,190	-	_	2,714	354 358		219,003 167,776	
	14,199	573	1,439	19,956	_		1,475 33	383	5,967		
1843 1844	10,181	546	1,854	36,129	_	_	424	3,684	3,667 5,165	192,771	
1845	16,984 21,008	5,310	9,564	24,565	6,135	4,699	1,637	2,843	6,142	234,332 271,277	
1846	11,451	7,145	8,249	41,878 56,574	1,076	2,440	1,408	1,550	5,231	261,811	
1847	7,055	4,247 3,194	12,520 7,983	56,652	4,578	1,544	942	1,510	7,023	252,819	
1848	7,402	1,502	6,272	56,438	6,463	139	678	1,067	5,468	278,505	
1849	16,681	1,998	5,278	43,143	5,785	975	1,366	2,071	13,258	298,444	
1850	10,001	1,000	0,210	40,140	0,,,,,		1,000	2,011	-0,200	200,211	
1851					_	_	_		_		
			1				<u></u>	<u></u>			
. 7	3 Cwt.		ious.	84 lbs	41 to	1	Various		11 to		
Average (

Note—Until the year 1845, the Wool imported into Great Britain from Buenos Ayres, Cordova, &c., was entered in the Custom House returns as South American, with the return of Peruvian, and the Goats' wool imported to the year 1840, inclusive, was entered as from Turkey, Syria, Egypt, &c. The Peruvian sheep and Alpaca wool is in ballots of 84 lbs each
It will be seen that the total number of bales imported in each year, from every country, from 1796 to 1849 inclusive, is

given in the last column of this page

Had we been dependent on foreign coun- in the palmy days of Phœnician enterprise, and when tries for the raw maternal of this staple branch of British industry, our foreign and domestic trade would have been crippled, not only by insufficient supplies, but by high prices. Estimating the imports for the vear 1850 at about 300,000 bales, (or 70,000,000 lbs.), nearly two-thirds of this quantity will be supplied from our transmarine territories in Australia, at the Cape of Good Hope, and in British India. fidently look forward to a large progressive increase of this valuable branch of trade. for if we calculate the population of the United Kingdom at thirty million, it is not an unreasonable allowance to allot six lbs weight of woollen garments annually to each individual, if they could be cheaply obtained This would require a supply of 180,000,000 lbs. of wool yearly, for domestic use alone Mr M'Culloch estimates the entire produce of British and Irish wool at 500,000 packs, of 240 lbs. each = 120,000,000 lbs. the home and colonial wools would therefore be only equal to the wants for domestic consumption, and leave nothing for the export of woollen manufactures to our colonies and to foreign countries, a trade which is now carried on to the extent of nearly £7,000,000 sterling annually, and is still capable of great increase, as light woollen fabrics are as conducive to health in warm climates, as stout fleecy garments in cold regions

I adverted, in the history of New South Wales, to the great national importance of the wool trade, but there are some other facts connected with this ancient branch of traffic and manufacture, which deserve a record in this work, in connection with the valuable staple product of our Austral-Asian settlements. For this collection of data, I am indebted to Mr. Henry Burgess, one of the best-informed practical men in England The rise and progress of the growth and manufacture of wool is associated with the advancement of society in Europe, and even in some parts of Asia, but especially in this kingdom; and the welfare of the Australian settlements has been so materially forwarded by it, that the following summary of its history, though almost too lengthy for these pages, may not be considered wholly mappropriate :-

"It is recorded of Phemius, the step-father of Homer, that he taught letters and music to the large quantities of wool for the manufactures of Tyre respect to levving of duties on wool exported. In

purple and fine linen ranked among the choicest articles of commerce, Colchis in Thrace, Laodicea in Phrygia, also produced wools of superior quality, and a portion of the latter was naturally of a fine jet black Ireland, at one time, had numerous flocks of a similar breed But Miletus, the Lord Western of his time, is stated to have produced in Caria, wool preferred to all others Pliny speaks of wool being brought from a great city north of the Ganges, probably in Thibet, or Nepaul, by way of Bactria, also to supply the manufactures of Western Asia; it was from these sources of supply, the material was obtained for the manufacture of those costly fabrics, which, when dyed with Tyrian purple, conferred such celebrity on the commerce of Phænicia After the decline of the Tyrian manufacture, it appears to have planted itself in Italy; Padua and Modena having, in their turn, become celebrated for their woollen fabrics

"Spain, antecedent to, or about the commencement of, the Christian era, had also attained celebrity for its woollen manufactures, and at that time ex-ported largely Soon after Cæsar's time Britain ported largely produced wool in great abundance, and in Anno Domini 314, great fairs for wool were held several times in the year at York, London, and Colchester It was about the middle of the tenth century when the woollen manufacture established itself on an extensive scale in Flanders, and from that time to the commencement of the twelfth century, the bulk of the wool produced in Britain appears to have been exported to the former country, and to such an extent, that it became proverbial that all the nations in the world were clothed with English wool made into cloth by the Flemings An extensive inundation of the Low Countries about the end of the eleventh century, having caused a number of Flemings to seek refuge in England, there they met with a favourable reception, and gave the first characteristic impetus to the woollen manufacture therein, so that by 1189 it had become extended over the greater part of England. At this date guilds of weavers had been established in London, Huntingdon, Lincoln, Nottingham, Winchester, Oxford, and York, all paying fines to the king for their corporate privileges, and licences were also granted to dealers in several large towns. In the thirty-first of Henry II (1185) the weavers of London obtained a confirmation of their charter, in which it was directed, that if any weaver mixed Spanish wool with English, in making cloth, the chief magistrate should burn it. In 1216 it is stated that the breed of sheep had greatly increased, and that, although the exportation of wool was still very cousiderable, the manufacture of cloth had also progressively increased, and that large quantities of cloth in the grey unfinished or undressed state, were also exported; and in which state a good deal of cloth was also worn in England, it appearing that up to this time very little progress had been made in the art of dyeing, although we find the duties on woad amounting to £593 12s 1d. in a single year. In 1261 the barons enacted "that the wool of England should be manufactured at home, instead of being sold to foreigners, and that all persons should wear woollen cloth made within the kingdom, and avoid every superfluous extravagance of dress." How far this restrictive and sumptuary enactment was car-ned into effect, does not distinctly appear, but we youth of Smyrna, and received wool in exchange for ried into effect, does not distinctly appear, but we his instruction

The plain of Damascus supplied find that in 1266, new regulations were enacted in

1298 the king, by letter, directed that all wool and wool-fells of the counties of Bedford, Buckingham, Derby, Cambridge, Huntingdon, Warwick, Leicester, Rutland, and Norfolk, should be shipped at Lynn; Newcastle, Hull, Ipswich, Southampton, Bristol, and London, being also other ports for the exportation of the same. It was in 1327 the king granted a patent in favour of the manufacturers of worsted stuffs in Norfolk; and in 1331, great inducements were held out to Flemish manufacturers to immigrate into England. In 1337 an act was passed, making it felony to carry any wool out of the kingdom, and at the same time, all persons, except the king and his family, were interdicted from wearing any cloth of foreign manufacture, on pain of arbitrary punishment, this enactment, however, appears to have been preparatory to the king (Edward III) constituting himself the Mehemet Ali of that day, for we find him, immediately after, contracting for 20,000 sacks of wool, and for some years subsequent, the great wool-stapler of England, entering into and concluding negotiations with Flanders and other foreign parts, for the supply of wool, and for the year 1354, we find the following very circumstantial account of the exports and imports, viz -

Exports

Quantity	Valu	Customs
31,651\frac{1}{3} sacks of wool, at £6 3,036 cwt (120 lbs) of do £2 65 wool-fells, 21s 8d .	£180,909 6,072	£81,624
hides 4,774½ pieces of cloth . 8,061½ ,, of worsted stuffs	9,549 6,718	
Total Exports	£212,338	£81,847

Imports.

Quantity	Value	Customs
1,831 pieces of fine cloth 397 to to f wax 1,829 tuns of wine Linens, mercery, grocery.	£10,986 795 3,659 22,944	£98 20 183 286
Total Imports .	£38,384	£587

"By 1357 the king appears to have become tired of trading, for in this year, English as well as foreign merchants, were permitted to export wool and woolfells, to any country in amity with the king. About this time the woollen manufactures of Ireland had acquired great celebity. The Catalonians, at this period, appear to have enjoyed the highest repute in Europe for their fine woollen fabrics, but were, at the same time, buyers of the stuffs called serges, manufactured by the Irish, for re-sale in Florence, where it is stated the luxury of dress was carried to the greatest height. A passion for what is termed luxury in dress, appears at this period to have become general over a great part of Europe; for we find that, in 1363, a sumptuary law was passed by the parliament of England, prescribing the kinds of cloth to be worn by the different classes of society From 1363 to the close of the century, various regulations were enacted respecting the fulling, and the sale and exportation of both wool and cloths; and, although in the year 1391, the exportation of wool

s stated to have been much less than usual, the customs on it amounted to £160,000, over and above tonnage, poundage, aulnage, pellage, &c In the same year, Guildford, in Surrey, is spoken of as the centre of an extensive manufacture, where the cloths had fallen into disrepute. consequent on the defective fulling and undue stretching In 1399, cloths of sertain descriptions, and below a certain value, should be exempt for three years from the charges of sealing and duty, for the ease of the poor

of sealing and duty, for the ease of the poor
"In 1421 the following statement was presented
to the king, as the proceeds of revenue for the year

ending Michaelmas, 1420, viz -

Customs on wool						£3,967	1	2
Subsidy on ditto			:			26,035		
Small customs	٠	٠.		:	٠.	2,436	9	13
Small customs 12 pennies in the £ exported, £164,	on \ 750	val	ue (Ja	of g	d	8} 8,237	10	9‡

Casual revenue £40,676 19 91 15,066 11 1

Total revenue . . . £55,743 10 101

'In 1429 it was ordained that, for the profit and wealth of England, the prices of wool and wool-fells should be raised, and that they should be sold to the merchants of Genoa, Venice, Tuscany, Lombardy, Florence, and Catalonia, for gold and silver only. In 1449, English cloths were prohibited in Brabant, Holland, and Zealand, which being judged contrary to the existing treaty, and found very distressing to the men weavers, fullers, and dyers, and the women websters, carders, and spinners, and all others con-cerned in the trade, it was resolved in parliament, that if the Duke of Burgundy did not repeal the injurious ordinance, no merchandise of the growth or manufacture of his dominions should be admitted in England In 1463, the parliament, considering that the wool of England was the principal commodity of the kingdom, and desirous of promoting the industry of the prople and the prosperity of the towns, prohibited foreigners from buying or shipping any wool, wool-fells, morlings, or shorlings, from England or Wales, except from the four northern counties, and the districts of Alverton and Richmond, in Yorkshire, and thence they were allowed to be shipped from the port of Newcastle only 1497, it is stated that woollen cloth was one of the greatest commodities of England, and that Henry VII concluded a commercial treaty with the Archduke Philip, wherein it was stipulated that the woollen goods of England should be received in the Netherlands without paying duty; yet such appears at all times to have been the caprice and uncertainty resulting from the manufacturing mania, that, in 1530, we find foreign merchants, as well as English manufacturers, withdrawing from England, insomuch that the woollen manufactures very much declined, and foreign cloth was sold cheaper than the English, by which means much land was turned into sheep-walks for supplying the Netherlands with wool

"In 1534, an act of parliament (25 Hen. VIII., c 13) represents the practice of engrossing farms and diverting land from tillage to the support of vast numbers of sheep, as an evil lately sprung up, and that some have 24,000, some 20,000, some 10,000, to 5,000 sheep, whereby a good sheep, that used to be sold for 2s 4d to 3s at most, is now

sold for 6s, or 5s., or 4s., at least; and a stone of wool, which used to be sold for 1s. 6d. or 1s. 8d, is now sold for 4s. or 3s. 4d., at least, &c., which things tend to the decay of hospitality, the diminishing of the people, and to the let of cloth-making, whereby many poor people have been accustomed to be set on work; for remedy it was, in substance, enacted, that none shall keep above 2,400 sheep (exclusive of lambs), and no man should hold above two farms.

"In 1537, or thereabout, it is stated that the woollen manufacture was introduced at Halifax, in Yorkshire, and that, besides the largeness of its parish, which contained eleven chapels and about 12,000 people, nothing is so admirable as the industry of the inhabitants, who, notwithstanding an unprofitably barren soil, have so flourished by the cloth trade, that they are become very rich, and have gained a reputation for this above their neighbours

"In 1550, sixty vessels cleared from Southampton with wool for the Netherlands, so great (it is observed) was the demand for the woollen manufactures of that country, even when England had made a considerable progress in the same manufacture

"In 1552, the English company of merchant-adventurers, who had had for the forty-five preceding years the sole command of the British commerce, had reduced the price of English wool to 1s 6d per stone, in the preceding year they had exported 44,000 woollen cloths of all sorts, while all the English merchants together had, in the same year, exported only 1,100 cloths.

"In 1560, the commerce between England and the Netherlands is represented to have attained a great height, the export of drapenes from England amounting to 200,000 pieces, and the aggregate export to £2,400,000, to the great benefit, it is said, of both countries, neither of which could possibly (without the greatest damage) dispense with, of which the merchants on both sides were so sensible that they fell into a way of insuring their merchandise from losses at sea by a joint contribution. This then appears the period of commencing the practice of maritime insurance.

"In 1567 the city of Norwich is spoken of as having recovered from the desolating effects of Ket's rebellion in 1540, and that its manufacture of fine and light stuffs had become famous all over Europe, and that the Flemings, about this time, introduced into that part of the country a taste for floriculture, this is also the period when Colchester, in Essex, was the centre of extensive manufactures of baizes, serges,

and other light worsted fabrics
"In 1582, the Hanseatic League (the German League of the present day) complained to the Diet of the empire that by the high duty laid on woollen cloth in England it had become twice or thrice as dear as it had before been, whereby the vast increase of England's wealth, 200,000 cloth's being yearly imported from thence. The only remedy was to banish the English merchant-adventurers out of the empire, and absolutely to prohibit all manner of English woollen manufactures The complaints of the League prevailed with the Diet, who passed sentence against the English merchants, and absolutely prohibited all English woollen goods. Notwithstanding the prohibition by the German Diet, it appears that in 1603 a duty of £1 13s 4d was levied on every sack of wool exported by aliens, and the same for every 240 wool-fells, and by proclamation the exportation was

sold for 6s, or 5s., or 4s., at least; and a stone of high time to do, the English manufacture of it being wool, which used to be sold for 1s. 6d. or 1s. 8d, now too considerable, and so much sent into foreign is now sold for 4s. or 3s. 4d., at least, &c., which parts as to employ or work up all, or nearly all, our things tend to the decay of hospitality, the dimown wool at home.

"In 1608 it is stated that the English were but little skilled in the arts of dying and dressing their own woollen cloths, and therefore usually sent them white into Holland, where they were dyed and dressed, and then sent back to England for sale. It is surprising that those who made the finest cloths in the world could not finish them, but the fact was really

so Alderman Cockayne, and some other merchants, reflecting on the great profit thereby made by the Hollanders, proposed to the king to undertake the dying and dressing of cloths at home, to the great profit of the public and his Majesty, whereupon the alderman obtained an exclusive patent for it, and the king was to have the monopoly of the sale of such dyed cloths. The king thereupon issued a proclamation prohibiting any white cloths to be sent beyond sea, and seized the charter of the Company of Merchant Adventurers, which empowered them to export white cloths. In retaliation the Hollanders and Germans prohibited the importation of all English-dyed cloths, from this period the manufacture appears to have struggled with alternations of success and the reverse for a great length of time

"In 1630, King Charles is stated to have confirmed his father's proclamation against the exportation of wool, wool fells, and woollen yarn, upon pain of confiscation, &c, for the encouragement of the woollen manufactures, and ordering that for the better utterance of cloth within the kingdom all black cloths and mourning stuffs at funerals should be only of the wools of the kingdom, and the false dying of cloths and stuffs being a great hindrance to their vent, none should therein use any logwood or blockwood prohibition of the exportation of wool was further confirmed by parliament in 1647, and in 1660 it was further enacted that no live sheep, wool, or woollen yarn should be exported on pain of forfeiture thereof, and of the ships or vessels attempting to carry the same, and also a penalty of 20s for every sheep, and 3s for every lb of wool, and three months' imprisonment for the master of such sheep, 12 Car II, c. 22 In 1662 several additional enactments were passed more rigidly prohibiting the exportation of wool. In 1666, 18 Car II, c 4, it was enacted, for the encouragement of the woollen manufactures of England, that no person should be buried in any shirt, shift, or sheet, made of, or mingled with, flax, hemp, silk, hair, gold, or silver, or other than what shall be made of wool only, upon forfeiture of £5 to the poor of the parish, towards a stock or work-house for their employment. In the following year, 1667, great improvements in dyeing and finishing of the cloth took place in consequence of the immigration of some workmen from Flanders In 1685 an influx of refugees from France brought with them considerable improvements in the manufacture of fine worsted

stuffs In 1688-9 great complaints prevailed against the rivalry of the woollen manufactures of Ireland; at the close of the century the total exportation of woollens from England was as follows, of which twothirds were exported from the port of London, viz —

> 1698 £3,120,615 1699 2,932,292 1700 2,989,163 1701 3,128,365

afterwards prohibited, which indeed, it is said, it was and at the three following periods the value of all

woollen manufactures and worsted stuffs exported was, viz. .-

Period	Value in £	Period	Value in £	Period	Value in £
1719 1720 1721 1722	2,673,696 2,730,297 3 059,049 2,903,310 3,384,842 2,920,601	1739 1740 1741 1742	4,168,643 3,218,273 3,056,720 3,669,734 3,358,787 3,541,558	1773 1774 1775 1776	4,436,783 3,875,929 4,333,583 4,220,173 3,868,053

and for the ten years, 1790-1799, the amount annually exported averaged £5,392,744 In an appendix to the evidence taken by a committee of the house of lords in 1828, is a statement showing the proportion of short and long wool grown in each county of England, which represents the quantity in 1800 to have been 325,000 packs, and in 1828, 384,500 packs of 240 lbs each = 92,260,000 lbs this is for England only, and to which Wales and Scotland are to be added.

The machinery of England and Scotland is capable of working up an almost indefinite quantity of wool; its manufacture is, I believe, one of the most steadily profitable branches of our national industry.

The production of the raw material, also, is found remunerative in England, Spain, Saxony, and other countries. Capital invested in an Australian sheep run is considered to return at present about twenty per cent. The most highly-prized to breed from are Lord Western's, the Saxony, and pure Merinos. Saxony rams, recently imported at Melbourne, sold privately for thirty guineas each. October and November are the shearing months, and soon after that time ships begin to load for England. The wool from Victoria is annually improving.

The average weight of a Port Phillip sheep is 60 lbs.; each sheep is computed to yield a clip of 2½ lbs. of wool (or 3 lbs. on rich pasturage), and the average weight of tallow obtained from each animal by boiling down, is 26 lbs. The price in February, 1849, at Melbourne, was 4s. to 5s Rough serviceable horses sold per sheep. at the same period at prices varying from £4 to £14 sterling each; horned cattle at 25s to 30s. per head.

The large Leicestershire breed of sheep in Australia weigh about 140 lbs. each. and yield 6 to 7 lbs. of wool. The Saxon breed yield a much finer wool, and have a small carcase. Dr. Thompson had, however, a pet Saxon wether, which weighed 150 lbs, and whose fleece weighed 104 lbs.

pends on the state of the pasture; if the soil be too rich, or too sandy, the teeth of the sheep wear away quickly, and if not consigned to the butcher they would perish of manition. The coarse, hardy Leicester sheep is not so hable to the catarrh, or foot rot, as the more pure-blooded Saxon or Mermo.

LIVE STOCK were first imported into the province, as previously stated, in 1836. Their numbers have rapidly increased since that period, as will be seen from the following statistical return:-

Year	Horses	Horned Cattle	Sheep	Swine
1840	2,372	50,837	782,283	
1841	·			
1842				
1843	4,605	100,792	140,433	3,041
1844	6,278	167,156	1,602,798	
1845	7,076	187,873	1,860,912	*****
1846	9,289	231,602	2,449,527	3,986
1847	11,400	290,439	2,996,992	5,867
1848				
1849	16,495	386,688	5,130,277	5,659
1850			_	
		3		ŧ

Note -1 here are no returns previous to the year 1840

The "boiling down" system has been adopted in this province from necessity, as well as in New South Wales, though to a much less extent. The live stock slaughtered, and its produce, is thus shown:--

Year	Boiling down Es- tablish- ments	Sheep Horned Cattle		Tallow pro- duced	Hogs slaugh tered	Lard pro- duced		
1845 1846 1847 1848 1849 1850	4 3 4 7	10,950 7,007 52,437 120,691	982 2,647	Cwt 4,344 1,994 13,205 27,725	29 6 2 —	1bs 240 — 488 200 —		
Total								

In 1848, the live stock slaughtered in Melbourne, consisted of, sheep 37,787; horned cattle 6,667; pigs 1,475.

The average weight of tallow obtained from a sheep, is 26 lbs.

The expense of converting sheep into tallow, sorting and packing the skin, wool, &c., is about one shilling a sheep, which may be defrayed by boiling the pelt, hoofs, horns sinews, &c., into glue, of which each sheep will yield about four pounds weight. With In general the yield of the fleece at Port regard to cattle, the intrinsic value of an Phillip is 4 lbs. from a sheep at maturity ordinary four-year-old beast consists of 80 lbs. (five years), but every subsequent year the of tallow, at 32s. per cwt.; hide, horns, glue, weight of the fleece decreases. Much de-bones, refuse, soup, and meat, 14s. 6d. = 40s.

There is a very extensive "boiling down" not only large steam boilers for obtaining the tallow from several animals at once, but also kilns for drying hams, manufactories for curing meat, a tannery, coopery, &c., all giving employment to a number of people. There are also similar establishments belongestablished candle works and soap manuactories.

The Australian preserved beef, put up in air-tight canisters, is excellent, and well deserving the attention of the victualling the owners of merchant ships.

I have recently partaken of a round of this meat, put up two years before in New South Wales, which was fit for any table . in the kingdom; the flavour was good, and the nutritious qualities very great. The beef is of easy digestion, and would be well adapted for aged and young persons in England.

Mr. R. C. Dangar, of Billiter Street, London, has sent out to the colony a preserving apparatus, and properly instructed persons to prepare the meat. He has now obviated the defects that hitherto existed in the Australian meats, which rendered some of them unsaleable in England, and has introduced a valuable article of commerce. The quality of that now imported is at least equal, by some persons it is even deemed superior, to any of the meats preserved in England.

The admiralty require annually five huncrews of her Majesty's ships. A large part of this is, I believe, supplied from Wallachia and Moldavia, but it is to be hoped that encouragement will be given by government to the production of our own colonies. The use of this fresh meat in the British mercantile marine, once or twice a week, would be beneficial to the seaman and economical to the ship-owner; good salt beef for sailors now costs from 3d. to 4d. per lb., and each man is allowed one pound and a-half a day. Of this about fifty per cent. is lost in boiling and by weight of bone. One pound of Australian cooked fresh meat, without bone, would not cost more than the pound and-a-half of salt meat, and be far more nutritious and healthy for nists, is now being exported to England: the men.

Several ship-masters have commenced the establishment, near Melbourne, belonging royal navy practice, and are using the fresh to Messrs. Watson and Wright, who have meat; and the certificates of the commanders of these vessels prove its capability of standing the test of any voyage, even when subjected to the trying temperature of the hold of a ship in the tropics. I used, while in China, some Australian beef gelatine, for the preparation of soup, and found ing to Messrs. Brodie and Cruikshank, and it wholesome and palatable. In a few years, other enterprising individuals, who have it is probable that the export of cured meats will be a large and profitable branch of business; and, as horned cattle are increasing with extraordinary rapidity, the supply may be said to be almost incalculable.

The cultivation of the grape has been department of her Majesty's navy, and of successfully commenced in various parts of the colony, and promises well.

Year	Acres of Vine- yards	Wine Made	Brandy Made
1847 1848 1849 1850	78 101 108	Gallons 2,600 1,300 6,306	Gallons. 30 100

The produce of the Swiss vineyards at Geelong is 1,000 gallons of wine per acre. Mr. Andrew Lang, justice of the peace of Dunmore, Hunter's River, had 1,200 gallons per acre. In both instances the beverage had the character of the Rhenish and Moselle wines. The tract of volcanic country to the northward of Melbourne is peculiarly adapted, by soil and climate, for the cultivation of the vine; and a large German immigration is expected, for the development of this useful product.

The common flax plant (linum usitatisdred tons of preserved boiled beef for the simum) is indigenous to Australia. Towards the Glenelg river it covers a large tract of marshy land. On the Lower Darling river it is found in great abundance, and is used by the natives for cord or line-nets. south-west part of Victoria province, and the north-east districts of New South Wales, would seem well adapted for the culture of flax, which is a thirsty plant, deriving nutriment from the air, rather than from the soil. It affords a very profitable crop, which, if properly dressed, always commands a market in Europe. The raw staples of flax, hemp, cotton, and silk, will doubtless be included, in course of time, among the valuable exports of Australia.

The red gum, or mahogany of the colothe texture is close and fine. Recently, a vessel of 300 tons burden—the Jane Cain, was launched from the Melbourne wharf. she was elaborately finished; and her cabin exhibited specimens of nearly every kind of wood produced in the colony. The Cape Otway, and other neighbourhoods, present a great abundance of rare and useful timbers.

The fisheries of Port Phillip, as also those of the other Australian colonies, are as yet undeveloped. A fine fish, called "cod," occasionally weighing upwards of ninety pounds, is numerous, and easily angled, in the rivers in the northern portion of the province. These fish are stated to be equal in flavour, though not in firmness, to their namesakes of Newfoundland. In February and March, large "schools" of herring frequent the coast. The real "Blackwall whitebait" may be taken in quantities in the bay of Port Phillip; also the schnapper, or bream, butter-fish, flatheads, lobster, or sea crayfish, and large shrimps.

Whales frequent the bays and harhours on the coast; Portland bay has been a favourite resort for the cetacæ during the calving season, and there is a lucrative fishery.*

The progress of the province is seen in the following tabular statement:—

Years	Imports	Exports.	Total	Cus tom duties	Ves- sels out- wards	Wool exported
					Tons	lbs
1837	£108,939	£12,180	£121,119	£2,979	13,424	175,081
1838	71,061	20,589	91,650	6,735	11,679	320,393
1839	204,722	77,684	282,406	11,476	20,352	615,605
1840	392,026	154,650	546,676	27,306	34,477	1,704,861
1841	217,764		374,833	46,093	34,156	2,752,340
1842	194,510	197,912	392,422	51,973	34,146	3,331,395
1843	120,675		341,314		34,215	
1844	158,863		401,664		_	4,828,735
1845	205,390		548,014			5,415,000
1846	315,571	425,201	940,772	37,852		6,406,950
1847	437,696		1,106,407			10,210,038
1848	373,676	675,359	1,049,035	52,270	55,094	10,524,663
1849	_		_	-	_	12,697,440
1850	-		-	-	_	_

Note—From 1841 to 1845 the returns are for the years ending 10th October, wheh represent the annual progress of the colony better than the year ending 31st December, as that is the middle of the wool shipping season. The extensive transactions with Sydney are not recorded, the province having been a district of New South Wales

* Some whale fishers at Peterhead, in Scotland, have disputed the accuracy of my statements under Newfoundland, as to the proportion of oil which each foot of whalebone generally represents. If the sample blade of whalebone, * e. the largest of the lamine in the series, weigh seven pounds, the whalebone will weigh about a ton The oil yielded generally, according to the measurement of the different lengths of whalebone is stated by Scoresby to be as follows:— Whalebone, 1 foot = $1\frac{1}{2}$ tune of oil, $2 = 2\frac{1}{4}$; $3 = 2\frac{3}{4}$; $4 = 3\frac{1}{4}$; 5 = 4; 6 = 5; $7 = 6\frac{1}{2}$, 8 = 8; 9 = 11; $10 = 13\frac{1}{2}$; 11 = 17; 12 = 21.

The progress of the export trade is thus shewn:—

Year	United Kingdom	British	Total Value	Total Tonnage Outwards.
1837		£12,180	£12,180	13,424
1838		20,589	20,589	11,679
1839	£26,654	51,030	77.684	20,352
1840	60,155	93,808	153,963	34,477
1841	94,431	81,704	176,135	34,156
1842	200.332	36,790	237,122	34,146
1843	266,650	41,316	307,966	34,215
1844	202,850	51,157	256.847	,
1845	576,551	86,946	463,957	
1846	323,881	101,320	425,201	
1847	566,417	101,494	688.511	48,643
1848	581,355	93,739	675,359	55,094

The following is the number and tonnage of vessels, inwards and outwards, engaged in the Geelong trade in the year ending October 10, 1849:—

Vessels	Inv	wards	Outwards		
Foreign Coasters	No 174 149	Tone 12,659 7,534	No 76 141	Tons 11,347 7,848	
Total .	223	20,193	217	19,195	

Imports, £36,195; exports, £255,087; exclusive of goods removed coastwise, revenue collected, £9,256. Produce exported—wool, 5,684,903 bales; sheep, 9,976; horned cattle, 524; beef, 112 tons; hides, 637; horses, 2,400; tallow, 373 tons.

Among the imports, in 1848, were the following items · — Apparel, 1,607 kegs; gunpowder, 18,220 lbs.; shot, 22 kegs, beer and ale, 289,381 gallons; bricks (Bath and fire), 9,000; cocoa nuts, 2,000; coffee and chocolate, 505 cwt., cottons, 527 bales; earthenware and china, 864 packages, glass, 1,017 packages; haberdashery, 1,329 packages; hardware and ironmongery, 6,420 packages; hats, caps, and bonnets, 168 packages; hosiery and gloves, 541 packages; instruments (musical), 28 packages; iron and steel, 872 tons, jewellery, 6 cases; lead, 29 tons. leather (unmanufactured), 72 packages, boots and shoes, 305 packages; machinery, 505 packages; nails, 898 kegs; malt, 465 bushels; oil (linseed), 626 gallons, oilcloth, 11 cases; oilman's stores, 3,615 packages; pepper and spices, 36,648 lbs.; perfumery, 4 cases; pipes (tobacco), 151 boxes; pitch, tar, and rosin, 654 barrels; plants and seeds, 241 packages; plate and plated ware, 4 packages, saddlery and harness, 244 packages; silks, 31 cases; 19,174 number; soap, 232 boxes; brandy, 50,345 gallons; rum, 52,552 gallons; of goods should pay special attention to the gin, 15,769 gallons; whisky, 5,529 gallons; liqueurs, 53 gallons; stationery and books, 551 packages; sugar (refined), 992 cwt.: ditto (raw), 1,940 tons; tea, 302,840 lbs., tin and tin-ware, 177 boxes; tobacco, cigars, and snuff, 179,506 lbs.; toys and turnery, 85 packages; turpentine and varnish, 70 cans, vinegar, 6,178 gallons; watches and clocks, 75 packages; wine, 60,476 gallons, wooden ware, 1,008 packages; woollens, 265 bales; &c.

Excepting tea, sugar, spices, and a few other articles, the whole of the above-mentioned goods, and others not enumerated, were from England, and amounted in real value to about £300,000. The exports for the present year to the Port Phillip district will amount, it is estimated, to half a million sterling; and to the Sydney district, about a million and-a-half sterling. Thus we export to a colony which is but the creation of yesterday, with a population of 250,000 inhabitants, an amount of goods nearly equal to one-half the total annual value of all our exports to France, with its thirty-six or forty million of inhabitants. At the close of this work, I hope to prepare a clear statement of the British trade with our maritime possessions, compared with that carried on with foreign countries, in order that a just estimate may be formed of the relative importance of our colonial and foreign trades; and lest the assertion made in Parliament, during the discussion on the Australian government bill, that the cost of our colomes to the home exchequer was equal to the trade we carried on with them, should be believed, it may here be stated that rency, ten per cent. per annum. New South Wales and Port Phillip, as well as other colonies, defray every shilling of their own expenditure; and the troops stationed there might as well be withdrawn, for any protection they affords to the colonists. Excepting, therefore, the pay of these soldiers, New South Wales and Port Phillip not only meet their own charges, but remit yearly a considerable sum to her Majesty's treasury in London, to provide for the conveyance of the pauper labouring poor of the United Kingdom, who seek remunerative labour in that remote portion of the British empire.

The ignorance of the mere geographical position of our colonies is not restricted to parliamentary documents, where, among other errors, Berbice is designated as one May, 1847, the following was the financial of the islands of the Bahamas. Shippers state of the Port Phillip province for 1846:—

geography of the ports to which they consign goods. For instance, two vessels sail from London as advertised for Port Phillip: but there are two harbours within this immense port; one called Hobson's Bay. which is the haven of the city of Melbourne, and the other Geelong, which is nearly fifty miles distant. Goods put on board a vessel bound to Hobson's Bay, Melbourne, but consigned to Geelong, will be exposed to risk, considerable delay, and additional expense, in their transit to their proper destination. Bills of lading should therefore be made out either for Hobson's Bay, Melbourne, or for Geelong, and shipped accordingly.

The custom duties levied at Port Phillip are of the same amount as those enacted for Sydney, New South Wales. Fifteen shillings per foot is charged on all vessels inward or outward bound as pilotage dues, besides harbour dues. One shilling per bale is charged for shipment of wool from Melbourne to Hobson's Bay (the shipping port),

and 5s. per ton for general goods. The rates of exchange are thus stated for January, 1839.—Bills on London at thirty days' sight purchased at one per cent. discount, one-half per cent for every additional thirty days; on Van Diemen's Land at sight purchased at two per cent discount. Drafts on London, at thirty days' sight, under £100, issued at three per cent premium; on Sydney, at sight, issued at one per cent. premium; on bills having a currency of not more than 100 days, eight per cent. per annum; on bills beyond that cur-

The revenue and expenditure has been-

	Re	venue			
Years	General	Crown or Land	Total	Expenditure	
1837	£2,979	£3,712	£6,691	£2,164	
1838	6,734	37,194	43,928	6,723	
1839	11,475	60,889	72,364	27,854	
1840	36,569	218.853	255,422	93,195	
1841	81,673	78,417	159,000	167,339	
1842	84,566	2,729	87,295	129,048	
1843	67,066	10,508	77,574	_	
1844	56,799	11,021	67,810		
1845	66,531	23,687	90,118	51,725	
1846	60,623	35,996	96,619	51,559	
1847	66,892	68,049	134,942	65,758	
1848	84,868	59,479	144,347	137,500	

According to the Melbourne Argus of 18th

crown land revenue, £35,537; droits of the in 1849, £33,410. Total, 1848, £38,222 crown, £459 = £96,619.

Expenditure. — From general revenue, £1,769; schedule C, £3,325 = £50,768 Surplus revenue for 1846, £45,850.

increasing: for the quarter ending Septem- shown in the following statements, which ber, 1848, the general revenue was £18,180, are, in form, similar to the returns given ditto, 1849, £21,030. The land revenue for under New South Wales -

Receipts. — General revenue, £60,623; the same period was, in 1848, £20,142; 1849, £54,441. The returns on this head are discrepant, as some include only the £34,695; schedule A, £5,200: schedule B, land sales, and others the depasturing licences.

The extent of mortgages on land, a 1 of The general and the land revenue is again advances on wool and on live stock are

Number and Amount of Mortgages on Land, registered at Port Phillip, from the year 1837 to 1848 inclusive

Year	Mortgages on Town Lands		Mortgages on Country Lands		Mortgages on Town and Country Lands		Totals	
	No	Amount	No	Amount	No	Amount	No	Amount
1837	_		I -		_	_		
1838	16	£17,260	l —				16	£17,260
1839	89	44,868	21	£32,595			110	77,463
1840	60	73,176	19	53,768	3	£7,500	82	134,445
1841	51	42.858	40	39,765	8	25,850	99	108,474
1842	95	56,090	57	40,301	10	16,870	162	113,261
1843	69	27,238	47	48,322	18	194,853	134	270.413
1844	45	17,831	20	29,317	3	1,510	68	48,658
1845	37	12,262	25	24,461	1	10,000	63	46,723
1846	45	14,702	25	21,034	l —		70	35,736
1847	67	19,544	30	23,487	l —	_	97	43,032
1848	97	33,433	40	36,395	4	1.900	141	.728

Amount of preferable liens on wool, and of since the passing of the act of Council, 7th mortgages on live stock, in the colony of Victoria, No 3,—15th September, 1843, to New South Wales, registered at Port Phillip, 31st December, 1848, inclusive

Year	Pre	eferable Liens of	n Wool	Mortgages on Live Stock							
	Liens	Sheep	Liens	Mortgages	Sheep	Cattle	Horses	Lent			
1843 1844 1845 1846 1847 1848	Number 9 66 37 22 43 102	No 37,910 275,168 168,793 133,375 284,202 819,823	Amount £4,959 23,022 11,784 11,159 33,790 62,532	No 28 117 71 85 125 146	No 57,338 345,159 149,536 251,402 539,924 600,517	No 4,240 19,655 8,175 12,506 22,252 34,469	No 310 629 136 227 480 510	Amount £24,131 129,008 44,383 100,071 135,907 129,808			

same sheep may consequently be included in returns, but as the immigrants arriving in successive years. estate are renewed every three years, on terms into the New South Wales district, and vice of mutual arrangement.

The number and description of the immi- of the province.

The liens are renewed every year, by adgrants who arrived at Port Phillip during the vances on the ensuing clip of wool, and the year 1848, are shewn in the accompanying The mortgages of real the Port Phillip district may readily pass versa, the return is given for both divisions

Return of the Assisted Immigration to Sydney and Port Phillip, during the year 1848

		SYDNEY							PORT PHILLIP							
			Above Under 14 years 14 years		Total	Stat	-		Above 14 years		Under 14 years		Total	Grand Total		
Births on the passage. Deaths on the pa sage Number landed	Male 42 —	44	Male 2 1514	-7	26	28	86	_	36	Fem 30 —	-7	Fem 13 1306		 55	66 122 3509	

628 EMIGRANTS FROM ENGLAND, WALES, AND SCOTLAND TO N. S.W.

Return showing the proportions in which the Assisted Immigrants, who have arrived in the Colony during the year 1848, have been taken from the several countries of Great Britain.

England.	Landed in Sydney District.	Landed in Port Phillip District	Wales and Scotland	Landed in Sydney District	Landed in Port Philli District
ENGLAND.			Wales.		
Northern counties :-			0 11		
Northumberland	6	14	Carnarvonshire		
Cumberland	3	4	Denbighshire		
	2		Flintshire	2	l —
Westmoreland		2	Merionethshire	1	
Durham	16	5	Cardiganshire		
Yorkshire	149	136	Montgomeryshire	2	8
Lancashire	88	64		ī	2
Isle of Man	4	_			,
			Carmarthenshire	7	_
Total	268	225	Brecknockshire	1	
10041	200	220	Glamorganshire	6	3
5 0			Anglesea	_	
Southern counties:					
Kent	102	26	Total	20) 9
Sussex	46	10	Total	20	
Surrey	66	23			
Hampshire	47	6	*		ı
Wight I	5	54	SCOTLAND.		1
Dankahana	48		Northern counties:		I
Berkshire		13			1 -
Dorsetshire	32	81	Carthness	3	5
Wiltshire	192	210	Sutherland		24
Somersetshire	19	85	Ross-shire	35	86
Devonshire	177	285	Cromarty		
Cornwell	42		Nairn	_	
Cornwall	3	3		50	152
Guernsey I		3		6	5
Jersey I	3	_	Moray or Elgin		
Alderney	1		Banff	4	5
			Aberdeen	14	17
Total	783	796	Kincardine	1	
		,,,,	Forfarshire	12	15
Midland counties			Fifeshire	32	32
	8	1		02	1 02
Cheshire				9	
Derbyshire	27	2	Clackmannan		
Nottinghamshire	160	34	Perthshire	29	36
Staffordshire	29	4	Orkney or Shetland Isles	6	3
Warwickshire	25	2	Isle of Skye		1
Worcestershire	28				
Leicestershire	62	9	Total	201	383
	1		10001		
Rutlandshire		1	D		
Northamptonshire	99	42	Southern counties:	10	00
Buckinghamshire	215	124	Edinburgh	19	28
Oxfordshire	66	171	Haddington	4	-
Gloucestershire	76	62	Berwickshire		20
Monmouthsire		5 -	Roxburghshire	9	15
Herefordshire	15	16	Selkirkshire	_	4
			Peebles	1	
Shropshire	9	1	T	65	25
			Lanarkshire		
Total	829	473	Dumfriesshire	14	11
			Galloway	_	2
Eastern counties	1	j	Ayrshire	48	94
Lincolnshire	55	40	Dumbarton	3	11
Norfolk	62	116	Argyleshire	97	59
				162	138
Huntingdonshire	31	13	Renfrewshire	21	13
Cambridgeshire	41	83	Stirling	21	
Suffolk	85	87	Linlithgowshire		14
Bedfordshire	59	56	Bute	2	
Hertfordshire	37	11	Wigtonshire	9	5
			East Lothian	š	2
Essex	30	10		ĭ	
Middlesex	200	64	Mid Lothian	1	_
Total	600	480	Total	458	441
Grand Total	2,480	1,974	Grand Total	679	833

Note.—The counties named are those of which the emigrants were natives.

Return showing the proportions in which the Assisted Immigrants, who have arrived in the colony during the year 1848, have been taken from the several counties of Ireland.

Provinces.	Landed in Sydney District	Landed in Port Phillip District.	Provinces.	Landed in Sydney District.	Landed in Port Phillip District.
IRELAND. Leinster:— Longford Westmeath Eastmeath Louth King's County Kildare	- 8 62	3 30 1 11	Ulster:— Donegal	38 127 5 62 43	58 - 49 20 12 10 2 33
Dublin	33 5 9 57	12 2 5 5 30	Monaghan	21	6 36 — 226
Total	1 -	99 3 47 27	Clare Kerry Cork Waterford Tipperary Lamerick	2 40	47
Galway	40	163	Total Grand Total	412 1,084	206

Note —Between the amount of the totals of this and the preceding return, and the number of assisted immigrants shown in the return (p 627), will be observed a difference of 141, which is composed of persons who were not born in the United Kingdom, but, with few exceptions, were the children of English parents who had been resident in France The counties given are the native counties

Return of Expenditure on Account of Assisted Emigration to Sydney and Port Phillip, during the year 1848.

	Sydney	Port Phillip.	Totals			
Total Passage-money at the contract rate (including half-price for all above one year who died on the voyage)	45,806 12 8	37,287 17 2	83,094 9 10			
	1,338 16 8	507 5 1	1,846 1 9			
Paid out of the colonial emigration fund Gratuities to surgeons, officers, constables, &c .	44,467 16 0	36,780 12 1	81,248 8 1			
	3,486 10 0	2,745 11 0	6,232 10 0			
Total charged on the colonial fund for convey- ance and superintendence	47,954 15 0	39,526 3 1	87,480 18 1			

Note.—The average contract price for the conveyance of each adult passenger was £12 11s.

Ages of the Assisted Immigrants who arrived during the year 1848.

Age		Where from.								Where landed			
Years	Engl	land.	Scot	land	Ireland		Elsewhere		Total.	Sydney.		Port Phillip.	
Under 1 1 to 4 4 to 7 7 to 14 4 to 21 21 to 45 5 to 50	Males 95 176 132 329 432 1,260 40	Fem 92 169 127 266 362 980 23	Males 33 53 47 85 131 440 11	Fem. 40 42 31 62 117 377 14	Males 29 41 23 90 90 324 1	Fem 25 14 24 53 620 398 2	Males 4 15 13 19 8 4	Fem 8 15 17 12 7 19	326 525 414 960 1,767 3,802 91	Males 89 162 133 287 381 1,110 23	Fem 94 137 103 244 593 1,004 16	Males 72 123 82 236 280 2,028 29	Fem 71 103 96 193 513 1,774 23
Total.	2,464	2,019	800	683	598	1,180	63	78	7,885	2,185	2,191	1,740	1,769

630 EDUCATIONAL AND SOCIAL STATE OF THE EMIGRANTS.

Number of Assisted Immegrants who arrived during the year 1848, who can read and write.

		Where	from.		Total.	Where	landed
Age.	England	Scotland	Ireland.	Elsewhere	Total.	Sydney	Port Phillip
Under 4 years :							
Cannot read	521	166	107	42	836	471	365
Read only	11	2	2		15	11	4
Read and write .		_					
From 4 to 7 years:							
Cannot read	148	39	39	18	244	138	106
Read only	101	34	7	10	152	91	61
Read and write .	10	5	1	2	18	7	11
From 7 to 14 years							
Cannot read	56	11	43	4	114	63	51
Read only	291	62	80	17	450	243	207
Read and write .	248	74	64	10	396	225	171
From 14 to 21 years							1
Cannot read	45	8	222	2	277	109	168
Read only	201	35	176	6	518	322	196
Read and write .	548	205	212	7	972	543	429
From 21 and upwards							
Cannot read	154	31	152	3	340	219	121
Read only	508	125	188	1	822	468	354
Read and write .	1,641	686	385	19	2,731	1,466	1,265

Trades or Callings of the Adult Males and the Unmarried Adult Females who have arrived in the Colony as Assisted Emigrants, during the year 1848.

Trade or Calling.		Where	from		Total.	Where	landed
Trade or Caming.	England.	Scotland.	Ireland.	Elsewhere	Total.	Sydney.	Port Phillip
Agricultural Labourers	1,146	296	332	8	1,782	969	813
Gardeners	46	15	4		65	38	27
Farm Bailiffs	6		5		11	11	
Shepherds	43	114	14		171	77	94
Herdsmen	_	1	2	1 -	3	2	1
Domestic Servants	507	260	804	12	1,583	864	719
Carpenters	112	41	10		163	81	82
Masons	15	6	2	l	23	15	8
Quarrymen	5	ĭ	ī		7	4	3
Bricklayers	20	3	ī	l	24	13	11
Brickmakers	19	6			25	20	1 7
Sawyers	13	l š		l _	21	16	5 5
Plasterers	1	1 _			î	10	1 1
Butchers	19	1	2		22	13	1 9
Bakers	7	13			20	12	8
Grocers		10	_	1 -	20	14	
Millers	2	1	_	1 -	3	2 2	-
	2 2 1	2	_	_	3	1	1 2
Brewers	1		_	_	1		2
Confectioners	_	1	_	I -		1	_
Maltsters	_	1	_		1	1	_
Poulterers	_		1	I -	1	1	
Tailors	6	4 2	1	-	11	7	4 4 13
Shoemakers	6	2	1	I —	9	5	4
Dressmakers	35	10	10		55	42	13
Bonnetmakers	4		_		4	4	
Strawplaiters	2	_		_	2	2 2	-
Tailoresses	1	1	_	_	2	2	l
Embroideresses	_	_	1	_	1		1
Needlewomen	10	1	_		11		11
Smiths	104	34	8	2	148	90	58
Wheelwrights	18	7	8 6	1	32	19	13
Cabinet Makers	8	6	1	_	15	8	7
Porters	_	1 1	I	I —	1	1	
Printers		3	l —	I —	3	2	1
Shipwrights	1	l i	l	l —	2	2	1 _
Flax Spinners		l î	1		2	2	_
				-			
Total	2,119	841	1,207	23	4,230	2,329	1,902

Religious Persuasions of the Immigrants who arrived during the year 1848.

Religious	Where from							Total		Where landed				
Denominations	England		Scotland		Ireland		Elsewhere		Total		Sydney Dist.		Port Phillip.	
	Males	Fem	Males	Fem	Males	Fem	Males	Fem	Males	Fem	Males	Fem	Males	Fem
Ch. of England .	1,764	1,428	40	32	119	304	56	58	1,979	1,822	1,103	1,035	876	787
Ch. of Scotland .	21	21	604	513	44	89	_	4	669	627	335	329	334	298
Weslevan Method	384	323	14	11	1	2	7	8	406	344	221	172	185	172
Other Protestants	266	224	115	103	4	1			385	326	197	171	188	155
Roman Catholics	23	19	27	26	430	784		8	480	837	324	481	156	356
Jews	6	4		_		_		_	6	4	5	3	1	1
Totals	2,464	2,019	800	683	598	800	63	78	3,925	3,960	2,185	2,191	1,740	1,769

there are at Victoria ministers of different 30 6 per cent. persuasions as follows .--church of England, one bishop and nine chaplains; church of New South Wales since the resumption of Scotland, five chaplains; church of Rome, one bishop, and seven chaplains; Independents, Baptists, and Jews, one each. The salaries of the chaplains vary from £100 to

£300 per annum.

Earl Grey has judiciously directed that aid be given for the transmission of female orphans of all religious denominations from the United Kingdom to Australia, and ordered that every practicable precaution be adopted for the safe conveyance of these friendless children, and for their protec-

tion on arriving in the colony.

At Melbourne, a building has been erected for their reception, and a similar committee to that formed at Sydney has been appointed there, consisting of the following members:—The Right Rev. the lord bishop of Melbourne; the Right Rev. Dr. Goold, Roman catholic bishop; Edward Curr, Esq, justice of the peace; the Very Rev P. B. property. Geoghegan, Roman catholic vicar-general, the Rev. Irving Hetherington, minister of deficiency of female population in Australthe Scots church at Melbourne; William Asia will have their fears removed, at least Lonsdale, Esq., sub-treasurer; John Patterson, Esq., acting agent for immigration, Robert Williams Pohlman, Esq., barristerat-law, and commissioner of the Insolvent missioners. According to the latest returns, Court; James Hunter Ross, Esq, solicitor, the male and female population of each of Andrew Russell, Esq.; James Simpson, Esq., the Australian colonies was as follows: commissioner of crown lands; the Rev. A C. Thompson, incumbent of St. James', Melbourne. The plan has answered well, and many parentless children, who had no prospect before them, in Great Britain or Ireland, but penury, and perhaps a career of vice, have been placed in a position to become respected and opulent members of society in Australia.

The relative proportion of the population of the United Kingdom is-England, 59.6 male emigrants sent to Sydney, Port Phillip,

To administer the consolations of religion, per cent., Scotland, 9.8 per cent.; Ireland,

The number of emigrants sent out to emigration, in 1847, has been - English, 14,088; Scotch, 3,638; Irish, 6,911, total, 24,637; being in the proportions of— English, 572 per cent.; Scotch, 14.8 per

cent; Irish, 20.0 per cent.

Of the Irish, 2,488 were orphan girls, who were taken as being a class well suited to the peculiar wants of the colony, and as being, for many reasons, the most eligible class of Irish emigrants that it was possible to select they have, in general, given satisfaction in the colony. It is due to the Irish to state that they make excellent settlers in a young colony; the Celtic desire for the acquisition of land, and of thereby realizing an independence, forms an inducement to industry and frugality, which is attended with beneficial results; and many Irish who have landed without a shilling in Australia are now the owners of a considerable amount of

Those who are alarmed at the present as regards the future proportion of the sexes, by the following statement, given on the authority of her Majesty's emigration com-

Males	Females	of Males	Date of Return
92,389	62.145	30.244) Census of
			1846
			Dec 31, 1847
			Blue Book
		1,161	1848
	92,389 20,184 47,813 21,527 2,818	92,389 62,145 20,184 12,695 47,813 22,313 21,527 17,139 2,818 1,804	20,184 12,695 7,489 47,813 22,313 25,500 21,527 17,139 4,388 2,818 1,804 1,014

The number of unmarried male and fe-

and South Australia, since 1st of January. 1848, has been, to—Sydney, males 2,182, females 3,618; Port Phillip, males 2,160, females 3,094; South Australia, males 1,692, females 2.191.

It will be seen from these returns that, both in New South Wales and Van Diemen's Land, there now exists a considerable excess of males over females. A similar disproportion exists in Western Australia, and, to a less extent, in South Australia and New Zealand. But it is not likely that the three last colonies will absorb any considerable number of female emigrants at The outlet for this class of emigrants must be sought principally in New South Wales or Van Diemen's Land. In regard, however, to New South Wales, it is to be observed that the disproportion between the sexes is continually and rapidly decreasing. In 1836, the number of males and females in the colony was—males 55,539, females 21,557; being in the proportion of five to two. In 1841, the numbers were males 87,298, females 43,558, being in the proportion of four to two. In 1846, the numbers were - males 112,573, females 74,840; being in the proportion of three And a further analysis of the last census (that for 1846) will show more clearly both the cause of the existing disproportion and the rate at which it may be expected Thus, in the population to right itself. under twenty-one years of age, the number of males and females is very nearly equal; between twenty-one and forty-five, the proportion of males to females is not quite two to one, and, among those upwards of fortyfive, not quite three to one The actual numbers are—under twenty-one, males 40,071, females 39,779; twenty-one to forty-five, males 59,009, females 30,315; forty-five and upwards, males 13,493, females 4,746; total, males 112,573, females 74,840. It is evident, therefore, that in the course of a very few years, as the old convict population* dies off (and, excepting in 1849, no additions have been made to it by transportation for several years past), the disproportion of the sexes will disappear, even without any special measures for that object.

The average retail price of provisions and

* In Victoria, as well as in New South Wales, the leaven of a convict population, whose religious and moral instruction was neglected, have, in a comparative degree, caused a considerable amount of crime. The convictions in Melbourne, in 1848, were—murder, 1, taining money under false pretences, 1; hbel, 1—manslaughter, 2; shooting, wounding, &c., 6; rob-total, 28. Capital convictions, 1.

clothing in the district of Port Phillip, quarter ending 31st March, 1849, was as follows:-

Wheat, 4s. per bushel; bread, first quality. 2d.: second quality, $1\frac{1}{4}d$; flour, first quality, $2\frac{1}{4}d$, second quality, $1\frac{1}{4}d$; rice, $3\frac{1}{4}d$; oatmeal, 5d; tea, 2s, 1d; sugar, $3\frac{1}{4}d$; coffee, 11d; sago, 9d, fresh meat, 2d, sait meat, 2d, fresh butter, 1s. 3d; salt butter, 1s. English cheese, 1s. 3d.; colonial cheese, 7td.; salt, 1 d. per lb., potatoes, 8s. per cwt.; colonial wine, 6s; imported wine, 15s; brandy, 25s.; colonial beer, 1s. 10d.; imported beer, 3s 6d. per gallon; candles, 5d. per pound; lamp oil, 2s 9d per gallon; soap, 5d. per pound; starch, 11d., blue, 2s.; colonial tobacco, 2s 6d, imported tobacco, 4s. Moleskin jackets, 8s. each; moleskin coats, 14s. 6d.; waistcoats, 5s., moleskin trowsers, 7s. per pair, flushing trowsers, 11s; coloured shirts, 2s 8d each; strong boots, 12s. 6d per pair, strong shoes, 10s., shepherd's coats, 18s each; socks, $10\frac{1}{2}d$. per pair, handkerchiefs, 9d. 10s each; socks, 103a. per pair, handkereniers, va. each; straw hats, 5s.; print dresses, 6s; merino dresses, 15s; flannel petticoats, 7s; calico petticoats. 2s. 10d; stockings, 1s. 6d per pair; shoes, 7s, caps, 2s. 10d each; shawls, 10s; shifts, 3s, stays, 6s per pair, check aprons, 1s each; straw bonnets, 4s, flannel, 2s per yard; calico, 7d., blankets, 13s. per pair, sheeting, calico, 1s per yard, mattresses, 10s 6d each; rues 6c. each, rugs, 5s.

Average Wages of mechanics, &c, in Port Phillip district, quarter ending 31st March, 1849

	Average	Wages
Trade or Calling	Town, per diem	Country, per annum
Males —	8 d	_
Carpenters	6 0	£43
Smiths	6 0	39
Wheelwrights	5 6	39
Bricklayers	6 0	40
Masons	6 0	40
Farm Labourers .		23
Shepherds		21
FEMALES —		
Cooks (Plain)		16
Housemards		14
Laundresses		14
Nursemaids	_	13
General House Servanys.	-	14
Farm-house Servants, Dairywomen, &c }	_	14

Note—In the case of the country labourers, the price paid for their services includes board and lodging, which consist of a dwelling, with a ration of 10lbs meat, 10lbs flour, 2lbs sugar, and 4 oz tea (or milk, in lieu of sugar and tea), per week. The wives of farm labourers with families do not recovered the amount of recovery the amount of recovery. receive this amount of money wages, as a sufficient quantity of food is generally allowed for the support of their children, and a corresponding deduction is of course made

The expense of erecting a country dwelling suitable to an agricultural labourer 18 from £5 to £20, according to the materials, the locality, and the extent of accommoda-

bery, 8; burglary, 2; housebreaking, 1; stealing in dwelling, 5; larceny, 51; forgery and uttering, 13; horse stealing, 9—total felonies, 98. Misdemeanours—assault, 10; riot and assault, 15; bribery, 1; obtion; but country labourers are provided with rent-free dwellings by their employers.

The rent of a town lodging suitable to a mechanic and his family is from 4s. to 6s. per week.

There is no fund in the district for the relief of the destitute poor; but there are at Melbourne two societies, viz., the Stranger's Friend and the St. James's Church societies, which afford assistance to the poor and sick Some immigrants have been rationed at the public expense.

r		
Districts	Principal Agricultural and other Productions of the District	1
Melbourne	Wheat, oats, potatoes, barley, vegetables of all sorts in abundance]
Western Port	Wheat, oats, potatoes, and maize	
Portland	Wheat oats, hay, vegetable, wool, hides tallow, black oil, black cattle, and sheep	
Geelong	Wheat, barley, oats potatoes, and all kinds of vegetables	
Murray Gipps Land	All kinds of grain Grain, wool, and fat stock for exportation	

The following statement is compiled from returns from the principal police divisions of the district of Port Phillip, showing the rates of yearly money-wages given in each division in the first quarter of the year 1849—food and lodging being provided by the employers .-

Trade or Calling	Mel- bourne	West- ern Port	Port-	Gee long	Mur- ray	Gipps Land
Carpenters	_	£52	£38	£40	_	
Smiths .	—	40	38	40		_
Wheelwrights	=	40	38	40		
Bricklayers	l —	_	28 27	40		_
Masons				40	_	—
Farm labourers		27 23	28	20	£20	£30
Shepherds .	16	23	27	18	20	25
Cooks .	16	17	26	_		_
Housemards .	14	12	20		20	=
Lat ndresses	14	17	28	-	_	_
Nucsemaids	13	10	18	=	l —	_
Farm Servants	14	17		l —	l —	l —
House Servants	14	17	24	I —	l —	1 —

Country lands, as in the other Australian colonies, are offered for sale, from time to time, by public auction, at an upset price, as fixed by act of Parliament, of 20s. per acre; but farms enclosed, and partially or wholly cleared of timber, may occasionally be ob-The number of leaseholders in this district, and implements, and taking the stock at a

It is not possible to say what amount of labour Victoria province is capable of receiving. According to the area and fertility of the soil, 20,000,000 people could with ease be sustained; the cry still is— Give us labour. This is shown in the following paper, compiled from returns from the principal benches of magistrates in the district of Port Phillip, showing the agricultural and other productions, and the demand for labour, &c., in each of the districts named, in the first quarter of the year 1849.

Demand for Labour, and description of Labourers required

Most parts of the district are still requiring labourers, the city and vicinity a little better supplied than heretofore, in consequence of late arrivals of immigrants All kinds of labour required

There is still ample room for any number of immigrants likely to airive, but single men and young married prople without many children are generally preferred in the bush Shepherds and farm servants are the descriptions of labourers in request

The scarcity of labour was never more severely felt

The families of mechanics exceeding three, without adults, may probably meet with difficulties on their arrival Domestic servants, farm servants, and shepherds are in request

Agricultural and pastoral labourers are in request Shepherds, stockmen, and farm labourers are in request

as well as in New South Wales, is increasing, and such a course of procedure is advisable for newly-arrived immigrants who have but little capital, are not acquainted with farming, and require time and practice to understand a pursuit which at first sight appears very simple, but which really requires more watchfulness, steady labour, frugality, and even scientific knowledge, than any of the ordinary branches of manufacturing industry.

In 1848, the squatting licences issued for Port Phillip were, within the then settled districts, 383; without them, 18,863, total, 19,246; and the land sold in Port Phillip

was 18,007 acres, for £24,030.

Squatters holding land under lease from the crown for pastoral purposes may, by permission of the crown commissioner for the district, transfer their "run" to another person. The price is determined not merely according to the quantity of land in the lease or "run," but by the healthy condition of the sheep, the purity of the breed, supply of water, contiguity to a shapping port, the quality of the pasture, and other circumstances. "Clean stations" average a sum of tained, on a lease of three to five years, at 9s. to 12s. for each head of sheep; the pura rent varying from 5s. to 10s. per acre. chaser receiving also huts, hurdles, fencing, higher rates. Each sheep "run" carries at the to some degree mitigated. for every additional 1,000 sheep, or equivalent number of cattle.

Every large sheep or cattle "run" has an overseer, whose salary ranges from £50 to £200 per annum. The firm of Boyd & Co., it is said, paid their overseer £800 per annum; but their sheep amounted to nearly 200,000. Some young men judiciously combefore they invest their capital in stock. The homestead is the head-quarters of the overseer, who visits the distant flocks, supervises the shearing, the packing in the wool provided), and the despatch of the dravs with the packs to Melbourne, Geelong, or Portland. Spacious steam boilers are also being attached to each homestead, for converting the fat into tallow, ready for ship-

ment to England.

It is due to the class of Australian gentlemen termed the "squatters," to state, that but for them, Port Phillip would have been reduced to as low a condition as South Australia was before the discovery of its copper mines. Those who bought land largely at the government auction sales in Sydney and Melbourne, were runed; their purchases were no more proof of the soundness of the "Wakefield theory," than was the purchase of scrip during the railway mania a proof of the prosperity of the country. In both instances, capital was transferred from industrious pursuits to be invested in gambling speculations. The squatters remedied the error; for like a young oak tree, around which a band of iron had been placed to prevent its growth, but which the expanding bark soon eveloped in its folds-so the squatters passed the settled boundaries of Port Phillip and of New South Wales, and found food for their increasing flocks and herds, which an act of Parliament would otherwise have prevented. By this means staple exports of wool, tallow, hides, horns, skins, and meat, were created; the colonies were enabled to import in return for their products, British manufactures; labourers steady pursuit of wealth by industry and 15,000 miles to Australia.

A cattle station, which is con- perseverance took the place of land gamsidered less profitable than a sheep run, bling, the settlements were rescued from the sells at the rate of 30s. to 40s. for each gripe of "land-sharks." and the wide-spread Superior sheep and cattle sell at ruin caused by the "Wakefield system," But the inleast 4,000 sheep, or an equivalent number jurious effects of an erroneous course of of horned cattle, for which a rental is paid to policy are not so immediately remediable; the crown of £10 per annum, and £2 10s. unfortunately, a class-interest is created, who having paid a high price for their land, are not desirous of a reduction in the market price; some of the squatters also, knowing they can rent a "run" from government capable of feeding 6.000 sheep for £10 a year, prefer the maintenance of the present system, which practically prevents the sale of any land, except in the neighbourhood of mence as overseers, and learn their business towns, or for some special purpose. Until, however, a method be adopted, by which land may become a marketable commodity, no improvement can take place in Victoria province in any degree commensurate with presses (with which the wool-sheds are each its immense agricultural capabilities. Emigrants who can obtain fine land at 3s to 5s. an acre, in British America, the United States, and Natal, will not be induced to pay 20s. in Australia. It is quite a different thing, to make free grants of blocks of several thousand acres to persons without capital, and to sell it at a moderate price; and yet the argument for fixing a price on land far beyond its real value, is based on the error alleged to be committed in Western Australia, where the granting of land free was not the cause of failure, as will be subsequently shewn.

In 1835 there were sold in the United States, about 12,000,000 acres of land, in 1836, about 20,000,000 acres; in 1837, the quantity fell to 5,000,000 acres; in 1838, 12,251,966 acres were offered for sale by public auction, and only 1,388,733 acres sold; the price paid was \$1,749,401, or about \$11 (5s. 71d.) per acre. The sales declined annually, until 1841. In 1842. they again increased to 1,600,000 acres, and advanced gradually to 2,200,000 acres, in 1847. Since 1819, the price has not exceeded \$11 per acre; and it is now proposed to grant a certain quantity of land to every single or married immigrant who settles in the States. This is the best mode of attracting labour, and until something effective be done by reducing the price of land in Australia to its proper value, our surplus population will proceed by tens of thousands to America, compared with tens were required to tend their sheep, the of hundreds who may be induced to voyage

BOOK IV.—SOUTH AUSTRALIA.

CHAPTER I.

ORIGIN-HISTORY-DISASTERS AND PROGRESS.

THE history of this now thriving settlement tion. affords a remarkable instance of the truism that men and nations frequently overlook the wealth and advantages which are, as it were at their own door, and seek a doubtful good by speculative efforts remote from the practical field of operation which lies immediately before them For nearly fifty years England had possessed a colony in New South Wales, and had been acquainted with the salubrity of the chmate, the fertility of the soil, and the maritime advantages of the position, before any further inquiry was made into the intrinsic value of other parts of the vast island-continent over which her dominion had been established. As in other instances a superficial examination of the mere coastline had been deemed sufficient, and one of the naval officers employed, and considered with reason the first authority on the subject (Captain P. P. King, R.N.), stated before the Philosophical Society of New South Wales, in the year 1822, that "the South coast of Australia is barren, and in every respect useless and unfavourable for colonization." How far this sweeping condemnation of a country larger than Great Britain, of which moreover only a small part even of the coast could have been seen by Captain King, is consistent with fact, will be seen in the following pages

The inland discoveries of Oxley, Cunningham, and others, to the westward, northward, and southward of Sydney, from 1817-18 to 1827-28 (see page 383), and the extreme drought of three years' continuance induced reflecting persons to consider whether that portion of Australia open to the south winds of the Pacific might not be found better supplied with periodical rains, and that the dip of the land would be as in other parts of the world, and especially in paign, without splendour and without reward. the eastern hemisphere, from north to south, consequently that the great water-courses of that severe trials awaited their bold adventhe Blue Mountains, which served as drains ture, perils from men, from water, and from for the country west of the sea-coast range, starvation; and if they fell amidst these would be found to have a southerly direc- dangers, no fame would attend their memory,

tion. This opinion I expressed at the time in Australia, and stated that it was founded on what I had witnessed in Southern Africa, Madagascar, and other adjacent regions.

To Captain Sturt, an officer then serving with his regiment in New South Wales, belongs the great ment of solving this problem, of pointing out the capabilities of South Australia for a colony, and of giving an additional stimulus to the interior exploration The adventurous journeys of Captain Sturt have been detailed (pages 383-381), after a perilous navigation of nearly a thousand miles, in a frail boat, on an unknown stream, with rapids, shallows, sandspits, and sunken trees, the banks crowded with bands of hostile natives, and the country whither he was being hurried totally unknown, this gallant officer and his brave companions found their toils rewarded by arriving in the early part of the year 1830 at a large lake, from whence they soon reached the Pacific Ocean at Encounter bay. in the meridian of 138° 56' E The loss by accident of a portion of his provisions compelled him to hasten his return towards Sydney, up the Murray, an undertaking far more arduous than his course down that stream with the current. This severe labour was successfully accomplished after eightyeight days of incessant exertion and sufferings, which produced insanity in one of the party, and temporary blindness in their "It is impossible," says heroic leader. Major-General Sir Charles James Napier, "to read the account of Captain Sturt's expedition down the Murray without feeling much admiration for our countryman and his companions - an intrepid enterprize! Unanimated by the glory of battle, yet accompanied by the hardships of a cam-This little band of undaunted men well knew

their courage would be unheard of, and their death mourned only by a few friends. Nor was the fortitude with which they extricated themselves from the dangers of the desert less to be admired than the boldness with which they entered these wilds."

The brave ever respect the brave, and this desire of a distinguished officer, who often met death face to face in the battle-field, to "express the admiration he felt for these intrepid explorers, and to spread the record of their names,"* will be appreciated by all who estimate at its right value what is noble in man. But it is only those who have themselves traversed trackless wilds, traced to their sources rivers hitherto unknown, and navigated stormy and unsurveyed coasts, amidst tribes of savages more bloodthirsty than the tiger, who can estimate at its true worth the value of the services which Sturt, Mitchell, Leichardt, Eyre, Grey, Cook, Flinders, King, Stokes, Blackwood, Jukes, and other really great men have rendered by their discoveries in Australia.

On the return of Captain Sturt to Sydney, he stated, in his official report, an opinion of the country he had explored, as follows:-"Cursory as my glance was, I could not but think I was leaving behind me the fullest reward of our toil in a country that would ultimately render our discoveries valu-* * * My eye never fell on a region of more promising aspect, or of more favourable position, than that which occupies the country between the Lake and the ranges of St Vincent's gulf, and continuing northerly, stretches away without any visible boundary." Sturt added, "that a closer survey of the interjacent country (from Eucounter bay up St Vincent's gulf) would he believed, be attended with the most beneficial results "

Fortunately, the then governor of New South Wales saw the importance of prose cuting further inquiries in this new region Governor Darling immediately acted upon the recommendation of Captain Sturt; and Captain Barker, of his Majesty's 39th regiment, then about being recalled from what was considered a useless position—King George's Sound—was directed to ascertain how far the opinions of Captain Sturt wer correct. Barker arrived in Gulf St. Vin cent in April, 1831, and while engaged in exploring the country in the neighbourhoof of Lake Victoria, was killed by the about

Sturt pays a well-merited tribute o this victim of the treacherous savages of ustralia, and describes his lamented brother fficer as mild and affable, possessing the esteem and regard of every companion, and he respect of every one under his command; ealous in the discharge of his public duties; onourable and just in private life; a lover nd a follower of science; indefatigable and auntless in his pursuits; a steady friend; haritable, kind-hearted, disinterested, and ancere; in him the crown lost one of its most valuable officers, and his regiment one The Mount of its most efficient members Barker district, named after this good man, vidences the grateful appreciation of his haracter felt by the colonists.

Mr. Kent, one of the party attached to he mission of Captain Barker, fully corroorated the report of Captain Sturt tated that the soil was rich; there was abundance of the finest pasturage; no lack of fresh water; and that it was "a spot, in whose valleys the exile might hope to build or himself and for his family a peaceful and a prosperous retreat." The intelligence of he discoveries of Captain Sturt, and their confirmation by Mr Kent, produced in Engand an anxious desire to form a colony in South Australia; and in 1831, a committee was formed to consider the subject. attended some meetings, about this period, in the Adelphi chambers, but finding it was resolved to fix a high price on the land, declined co-operating personally, but gave very aid in my power towards the extension of our occupation of the Australian territories. Great credit is due to Mr. Gouger, who, after he had formed three or four provisional committees, was often left alone, to work out, at his own expense, the noble object he had in view. In 1834, an influential committee was formed, which included eighteen members of the house of Commons, who resolved to carry out what was termed the "self-supporting system," by which the colony would be no expense to England, as money would be obtained by the sale of waste lands, whereby the labour would be conveyed from the United Kingdom, and the formation of a prosperous settlement would necessarily ensure the means of an adequate revenue for its local govern-This was no new idea; it was not a theory, as it had been termed: the plan had been practised in the earlier British colonies in the western hemisphere; and for some years the sale of waste lands in the

[•] Colonization, particularly in South Australia, b Major-General Sir Charles James Napier.

to have been very successful *

lations which neutralised or perverted its effect. As to what Mr. Wakefield somewhat rens avowed his advocacy of the high price.

The public, easily captivated with an apparently novel idea, and having little leisure

* The property of the soil of the whole of the territory of the United States, is vested, by the consent of the several state governments, in the general government of the confederation at Washington, excepting such lands as belong to private individuals, or have been appropriated by the separate states for educational and other purposes The extent of this property is, certainly, not less than one thousand million acres, which at 2s per acre, shews a value of £100,000,000 sterling. The public lands have long been considered in the United States a valuable source of revenue; in 1776, Silas Deane laid before congress a plan for the sale and settlement of the territory north-west of the Ohio, and the calculations of the future value of this region, caused the first conflict of opinion among the several On the 20th May, 1785, an ordinance was passed by congress, for ascertaining the mode of disposing of lands in the western territory Under this ordinance, 121,540 acres were sold, and three large tracts disposed of by what was termed "special contract" The price varied from one dollar to twothirds of a dollar per acre. On 10th May, 1800, an act of congress defined the land system of the United States, of which the first feature was the rigid survey of the public lands, founded upon a system of true meridians The largest division was a township comprising thirty-six square miles = 23,040 acres, this was sub-divided into sections of one square mile each, and further into quarter sections = 160 acres In each district a land-registry office was established, with two public officers appointed by the President of the United States-a registrar, and a receiver of public monies, with a salary each of \$500 a year, and a commission of one per cent on the moneys paid into their office. For some years credit was allowed on all purchases of public lands; but this caused speculations, arrears, and relinquishment of

United States, and the formation of colonies to inquire either how much of it is new, or in the wilds of the "far west," were known how much of it is applicable to the subject in question, are too ready to take on trust This system was marred in its application assertions for truths, and to believe (for a to the crown lands of Great Britain, by the time), that what is popularised, must be corattempt to engraft on it principles and regu- rect. Had Mr. Wakefield, in pursuance of his meritorious efforts to establish a British colony in South Australia, confined his views vaguely terms a "sufficient price," neither him- to the retention of the price fixed in 1831 self, Lieutenant-Colonel Torrens, or any of its by Viscount Goderich and Lord Howick advocates, have yet agreed what this "suffi- (now Earl Grey), viz., 5s. per acre, much cient price" is; and, in the search after this suffering and great distraction of legislation ignis fatuus, New South Wales would have would have been avoided. I am personally been ruined, had not the squatters evaded unacquainted with Mr. Wakefield, and enterthe impolitic law which fixed twenty shil- tain no adverse feeling to his projects; but lings as the minimum price for all lands— am, on the contrary, disposed to appreciate good, bad, or indifferent. To Mr. Wake- to the fullest extent exertions which have field is, however, due the merit of having had for their object systematic colonization. urged the formation of a colony at South The field for thought and action afforded Australia, by the sale of the crown lands. by our vast colonial empire is wide enough Whether he was the author of the pound an to admit of every variety of opinion, and acre price, or the two or three pounds per it is that very diversity which appears, under acre, subsequently proposed, does not clearly Providence, best calculated to elicit truth appear in his recent work † Colonel Tor- and awaken the mind of the nation to the deep and daily increasing importance of the subject; for colonization, it must be remembered, is a national-emigration, an purchases But in the year 1820, an act of congress altered this system, substituted cash payments for the credit system, and reduced the minimum price at which waste lands were to be offered for sale by public auction, from two dollars to one dollar and a quarter per acre Lands not thus sold were subsequently open to purchasers at the minimum price The value of the public lands sold in the twelve land states of the United States from 1787 to 1st January, 1848, was, in dollars, as follows —Ohio, \$13,599,602, Indiana, 13,902,325; Illinois, 14,740,417; Missouri, 9,643,931, Alabama, 10,764,654, Mississippi, 9,714,942, Louisiana, 2,908,356, Michigan, 9,000,720, Arkanasa, 2,823,277; Wisconsin, 4,309,669; Iowa, 2,227,828; Florida, 926,613 Total \$94,551,331, which, at fifty pence the dollar, is equal to £19,698,184 13s 4d The area of these twelve land states is given at 392,579,200 acres, of which 304,376,348 acres are surveyed, and 78,812,286 acres are unsurveyed, 100,209,656 acres have been sold; and, on 1st January, 1849, 289,961,951 acres remained unsold During 1847, 2,521,305 acres sold, for #3,296,404 The quantity of land offered for sale in the year 1849 was 9,113,400 acres. In the territories of the United States, north and west of the regularly organized states, there are 208,332,000 acres of land to be sold at about 5s an acre. What prospect have our colonies for selling land at 20s. an acre in Australia or New Zealand?

I must reserve for the conclusion of this work, further details on this important subject; but sufficient has been stated to shew the fallacy of the idea, that Mr Wakefield had "invented a system for the sale of waste lands;" whereas a judicious system has been in operation in the United States for fifty

† A View of the Art of Colonization, by E G Wakefield London . 1849.

individual—undertaking. therefore, refers neither to individuals nor to lands of our colonies so high, as to drive emiterms, and where, I believe, it is now contemplated to give every respectable immicharge. With this preliminary explanation, of the colony of South Australia.

other gentlemen, aided by the Duke of Welof Australia which lies between the meridians the minimum price of land was fixed at parliament. 12s. per acre, to be disposed of in public by

My opposition, land. The commissioners were further required to raise £20,000 by the issue of theories, but to what I conceive to be the bonds, as South Australian revenue securiproved error of fixing a price on the waste ties, and this sum was to be invested in the public funds, as a guarantee that the colony grants with but limited means to the United would at no time be a charge on the British States, where land is obtainable on moderate exchequer. If within ten years from the date of this act of Parliament, there were less than 20,000 natural born subjects of grant a limited number of acres free of all his Majesty in the province, all the public lands then unsold would be liable to be I proceed with an account of the formation disposed of by his Majesty in such manner as shall seem meet.

By the persevering exertions of Messrs. In May, 1835, the commissioners were C. Buller, Wakefield, Whitmore, Grote, appointed, Colonel Torrens chairman. They Angas, Torrens, Hutt, Rowland Hill, and fixed the price at 20s. an acre, but it was found too high a price; for after the comlington in the house of Lords, an act was mencement of the sales, and notwithstandpassed on the 15th August, 1834, by the ing incessant efforts for two months, con-Imperial Parliament (4 & 5 William IV., siderably more than half the quantity of c. 95), under which South Australia, within land required to be disposed of, in order certain defined boundaries, viz, "that part to commence operations, remained unsold. The commissioners therefore announced, on of 132° and 141° of E. long, and between 1st October, 1835, that "the price of land the Southern Ocean and 26° of S. lat, togenical uncluded in the preliminary sales should be ther with the adjacent islands thereto," were reduced to 12s per acre." The first purdeclared to be a British province. A board chasers were, accordingly, entitled to reof three or more commissioners was to be ceive for £81, one acre of town land, and appointed by the crown under the act, to 134 acres of country land. This was little carry the intentions of the legislature into more than 12s. per acre, and a fair price, effect; this board was to be represented in considering that an acre of town land was the new colony by a resident commissioner; given. It was, nevertheless, still found difno convicts were to be sent to South Australia, ficult to fulfil the conditions of the act of

In this dilemma, an association, termed auction or otherwise, as the commissioners the South Australian Company, was formed, might deem best; the proceeds of all land which owed its origin to Mr. G. F. Angas, sales to be applied to the purpose of send- who, with his own capital, and that of a few ing out free emigrants; adult persons of friends, who had confidence in his prudence the two sexes, as far as possible, to be in and integrity, raised, at their own risk, the equal proportions of both sexes, and not sum necessary to purchase a considerable exceeding the age of thirty years, no poor quantity of land. When success, in going person—husband or a wife—could be conforward, thus became certain, these gentleveyed alone to the colony, nor without their men handed over their interest in the prochildren; the commissioners were empow- ject to a company, under the above desigered to borrow money on bonds to the ex- nation, merely receiving five per cent. per tent of £200,000, to pay the expenses of annum for the use of the cash advanced. the colony, and to make it a charge on Mr Angas, a gentleman of considerable exthe revenue, produce of rates, duties, and perience, and of a fine energetic spirit, betaxes, as a colonial debt; whenever the came chairman of the company, which dates population amounted to 50,000, a constitu- its establishment from the 22nd of January, tion was to be granted, and until this period 1836, when £200,000 was subscribed, in had arrived, his Majesty might empower 4,000 shares of £50 each, on which £5 per persons resident in the colony to make share were immediately paid. 13,770 acres laws, levy rates, duties, and taxes, subject (including 102 acres of the site of the first to the approbation of the king in council; town) were purchased from the South Austhe act was not to be in force until the sum trahan commissioners, on favourable terms, of £35,000 had been raised by the sale of such as - the selection of their own lain heu of 20s.; the right of purchasing one commissioners, on the following terms:pleased; the privilege of leasing, for 10s. had to pay 40s for the same quantity.

The commissioners continued until the end of February, 1836, to sell land at 12s. an acre, to all who were able to satisfy them that the purchasers would take out adequate capital, to be employed in the improvement of the colony. The bolders of the first 437 land orders were to have priority of choice, of both land and pasturage, over all others. Any one paying in advance for 4,000 acres had the right of requiring a survey to be made of any compact district not exceeding 40,000 acres, and, within a reasonable time after such survey, to select his 4,000 acres from any part of such district, before any other applicant. The privilege of selecting servants and labourers. for a free passage from England to the colony, was allowed to all purchasers in England, at the rate of one person for every £16 expended in land

By the 24th section of the act, the South Australian commissioners were required to invest £20,000 in government securities, as a guarantee against the colony becoming a charge on England; and, as they were authorized to raise a loan of £200,000, at a rate not exceeding ten per cent (18th section), they issued tenders for a loan to the amount of £80,000, to be received by Tenders, however, were received to the extent of only £13,000, at ten per cent interest, and on the terms that the loans were not to be paid off, nor the interest reduced, for several years. The commissioners then proposed to raise £100,000, at six per cent, by bonds, to be issued at £80, for £100, and not to be paid off in agreed, on the 12th of November, 1835, to riage, for use in land explorations. The

bourers; the reduced price of 12s. per acre, advance £30,000 to the South Australian acre in the metropolis of the colony for £20,000 to be paid down on the 18th inst., every 134 acres of country land, this privi- and the remaining £10,000 on the 15th of lege being limited to 437 sections; the December following. The loan not to be right, to purchasers of 4,000 acres and up- paid off for ten years from the date of adwards, of selecting in any district they vance, and to bear interest at ten per cent. per annum, payable half-yearly, in London; per annum, 640 acres of pasturage for every a commission of two per cent. to be paid forty acres purchased, while non-proprietors to Mr. Wright on £25,000. These terms were accepted; £20,000 were lodged in the Three per Cent. Consols, in the names of three trustees nominated by his Majesty's government, and the secretary of state approved of the transaction

By these proceedings, but chiefly, as before observed, by the large purchases of the before-mentioned company, the South Australian act was brought into operation; and the crown appointed as governor of the province, on the recommendation of the commissioners, Captain Hindmarsh, a brave and experienced sailor, but totally unfit for a position foreign to all his past pursuits. Mr J. H Fisher was nominated resident commissioner, and Lieutenant-Colonel Light surveyor-general.

On the 1st of March, 1836, the commissioners raised the price of land to 20s. per acre, and announced that, at any time during the first year from the period of the landing of the governor, the price might be raised to 40s. per acre, by the colonial resident commissioner. All sales were to take place in the colony, but investments conferring the right to select labourers might still be made in this country; subsequently, however, sales were also made in England.

On the 20th March, 1836, the first vessel despatched by the South Australian commissioners, named the Cygnet, of 239 tons, sailed from London she was followed by the Rapid brig, of 162 tons, both fast-sailing craft, under the orders of Colonel Light, the surveyor-general, accompanied by his surveying staff, who were ordered to prepare for the reception of the governor, and the chief body of settlers who were to follow in less than twenty years. They could have H.M S. Buffalo, and two other vessels. The raised the money on these terms, but the Cygnet and the Rapid were each fully solicitor-general was of opinion that the equipped to act independent-supplied with act of Parliament did not authorize such a provisions for one year, with proper surproceeding. After considerable delay and veying instruments, arms, ammunition, tents, much private exertion, Mr. Wright, then clothing, utensils, tools, medicines, and necesan eminent banker in Henrietta-street, saries of all kinds likely to be required; also Covent-garden, and who was at that period with a boat fitted for surveying the various one of the South Australian commissioners, inlets, and a portable boat on a light carColonel Light was in the Rapid, with Messrs. Captain Lipson, Messrs. Finnis, O'Brien, Gilbert, as storekeeper; and a few passengers. As nothing was really known of the mainland, the vessels were ordered to proceed first to Nepean bay, in Kangaroo Island, which was to be the place of rendezvous, where the gardeners were to be landed—a plot of ground, stocked with vegetables; the provisions and stores not required for the purposes of the survey were to be disembarked, together with the wives and families of the officers and men, if arrangements could be made for their temporary accommodation and safety. The surveyor-general was then to proceed to examine the coast in the central parts of the intended colony, excepting the parts surveyed by Flinders, his attention was particularly directed to Nepean bay and Port Lincoln, but more especially to the line of coast from the east of Encounter bay to the north of Gulf St. Vincent, and the inlet in 34° 40' S. lat, was pointed out as demanding careful examination.

Wherever a good harbour was found, the land around for a considerable distance was to be explored, and if suited for the site of even a secondary town, to be surveyed. The responsibility of selecting a position whereon to found the future capital of the province devolved on Colonel Light, who although instructed to confer with the governor on the subject, (should he arrive before the selection was made,) and to pay due regard to his opinions and suggestions, was fully authorised to act according to his own convic-The South Australian commissioners in London possessing no knowledge of even the coast-line, could only lay down general rules for the guidance of their surveyor,

expedition was composed, besides the sur- water, facilities for internal transit, and for veying staff, under Colonel Light, of Captain communication with other ports, distance Lipson, R.N., as harbour-master, two sur- from the limits of the province, "as a veyors, and thirty mechanics and labourers, means of avoiding interference from withincluding three carpenters, two smiths, four out in the principle of colonization," and the woodmen, one shoemaker, and two or three neighbourhood of extensive sheep walks; and gardeners, besides the crews of the vessels. as of secondary value, building materials, such as timber, stone, brick, and lime, facili-Field, Pullen, and Hill, as first, second, and ties for drainage and coal. When the most third officers; Messrs. Jacob and Symonds, eligible spot was selected, the streets were as assistant-surveyors; and Mr. John Wood- to be laid out of ample width, arranged with ford, as surgeon. The Cygnet contained reference to convenience, salubrity, and Mr. Kingston, the deputy surveyor-general, beauty, and with the necessary resources for squares, public walks, and quays Neale, Hardy, and Cannan, as assistant-trict around the intended capital was to be surveyors; Dr. Wright, as surgeon; Mr. arranged, mapped, and divided into sections of 134 acres each, of a form convenient for occupation and fencing, and a road reserved adjoining each section. All land on the coast within not less than 100 feet of high water-mark, and at least sixty feet along each side of a navigable river, and around every lake or other sheet of water, to be reserved as a publica road. Collision with the natives was to be avoided, the wild animals to be considered as their property, and sporting by the Europeans to be discouraged as much as possible, and when districts were found inhabited, to be prevented altogether.

The Rapid reached Nepean bay, Kangaroo Island, on the 19th August, 1836, and the Cygnet on the 11th September following; they found three vessels belonging to the South Australian Company which had previously arrived, viz.—on 27th July, 1836, the Duke of York, which carried out emigrants and the colonial manager of the company (Mr. Samuel Stephens), who was subsequently thrown from his horse when riding on Mount Lofty range, and died on the spot; on the 30th July, the Lady Mary Pelham, and on the 16th August, the John Pirie, under the command of Captain Martin. The manager of the South Australian Company had landed, built a mud hut, surrounded it with a small battery, and hoisted the British ensign. The Africaine, Captain Duff (an able and energetic commander), arrived early in November, with emigrants, having on board the colonial secretary and the emigration agent. The Tam O'Shanter. John Renwick, and Coromandel, each with emigrants, soon followed; the latter vessel carrying out a banking institution, and such as a commodious harbour, safe and the advocate-general and colonial surgeon. accessible at all seasons of the year, a con- The women and children, store-keeper, siderable tract of fertile land immediately gardeners, and stores, were landed from adjoining, an abundant supply of fresh the Rapid and Cygnet, at Nepean bay,

and Colonel Light proceeded to examine Kangaroo Island; thence explored from end to end the western shore of Gulf St. Vincent, then visited Port Lincoln, in Spencer's Gulf, where the governor, Captain Hindmarsh, was expected, in the Buffalo. The surveyor-general did not deem Port Lincoln eligible for the site of the chief town; but one spring of water was found, and that below high-water mark; no good or clear land was seen, and the entrance to the fine harbour considered to be surrounded by shoals, rocks, tide-ripples, and other difficulties, which rendered the approach hazardous.

The explorers then proceeded to examine the east coast of Gulf St Vincent, where they discovered a creek about fifty miles from the open sea, which proved to be the emhouchure of a fresh-water river, and appeared to Colonel Light "as beautiful and safe a harbour as the world could produce." It was found to be sheltered from every wind, abounded in smaller creeks-one branch extending seven miles, and nearly one mile wide, and with a depth of three to five fathoms, suitable for vessels of three to four hundred tons The country, where examined, resembled English park scenery, and consisted of widely extended open plains, moderately wooded, with a rich soil clothed with luxuriant grass, and watered by numerous streams. It sloped backwards from the coast for several miles, to a line of sandy hills, intersected by picturesque vallevs terminating in an elevated range, to which the name of Mount Lofty was given, behind this range lay Lake Alexandrina (now Victoria), and the country of the Murray river. Colonel Light deemed this spot the most eligible for the site of the future capital of the province of South Australia,

* Considerable opposition was made for some time by several members of the colonial government, to the site chosen by Colonel Light, some contending for Port Lincoln, others for the neighbourhood of Encounter bay. Sir John Jeffcott, the judge, was in favour of the latter, and while endeavouring to prove the justice of his opposition, he lost his life, together with Captain Blenkinsopp, by the upsetting of a boat

† The foundation of a new settlement in the wilderness is always an interesting ceremony, and among the ancients it was preceded by religious solemnities. On the present occasion, the course of proceeding was as follows:—as soon as H.M.S. Buf-talo, with Captain Hindmarsh on board, came to anothor, preparations were made for landing, and on the same day the gallant officer landed, escorted by a party of marines, and accompanied by the various official authorities, together with the ladies of their

and Colonel Light proceeded to examine and on the banks of the Torrens river, about Kangaroo Island; thence explored from seven miles inland from the anchorage, the end to end the western shore of Gulf plan of Adelaide was marked out.*

Captain Hindmarsh anchored in Holdfast bay on the 28th of December, 1836, and was immediately proclaimed governor. † Colonel Light, under the authority of the commissioners, had, as previously stated, fixed the site of the future city of Adelaide before Captain Hindmarsh arrived, who, although he had accepted the appointment on condition of " non-interference with the officers appointed to execute the surveys and to dispose of the public lands," soon acted as if he was on the quarter-deck, where no one dare question his judgment. Disputes arose between the governor appointed by the crown, the resident commissioner, Mr. Fisher, Colonel Light, and, in fact, between most of the officials.

In March, 1837, the town lots were sclected, but the country lands were not allotted until May, 1838, and then only partially. The settlers, on arriving, found living very dear; the lands, for which they had paid in England, were not granted immediately; and the controversies of the authorities caused great discontent. The commissioners in England, on the 22nd of December, 1837, addressed a despatch to Lord Glenelg, his Majesty's secretary of state, complaining of the governor, who, on the 21st of February, 1838, was recalled

The conduct of the official authorities under governor Hindmarsh appears not to have been very creditable, and made his administration of the affairs of the province a matter of great difficulty. The resident commissioner (Mr. J. H. Fisher), appointed by the Australian commissioners in London, refused to obey the authority of the governor, and when Captain Hindmarsh had dis-

several families. They were received in the tent of the colonial secretary, by the gentlemen who had previously arrived with Colonel Light, who had fixed their temporary habitations on the plains afterwards named Glenelg. The commission of the king, appointing Captain Hindmarsh governor, was read to the assembled settlers, numbering about 300, the appointments of the members of council and of the executive government, were announced, the customary oaths of office were administered to the governor by the colonial secretary, the British flag was hoisted under a royal salute, the marines fired a feu-de-poie, the Buffalo saluted his excellency the governor with fifteen guns, a dinner, or rather cold collation, was laid out in the open air, the health of his Majesty was drunk with enthusiasm, the national anthem was played and sung, healths were given and speeches made.

the emigrants, (one of whom, named Trollicly placarded his reinstatement of Brown. The colonial secretary, Mr. Robert Gouger, and the colonial treasurer, Mr. Osmond Gilles, fought in the streets of Adelaide publicly, and were taken into custody by the serjeant of marines, who acted as chief constable. The offenders were conveyed to government house, detained ten minutes, and then liberated, on their parole to keep the peace. The colonial secretary was aided and abetted by Mr Mann, the advocategeneral of the colony. The governor suspended Mr. Gouger from his duties as colomal secretary, who thereupon threatened to bring an action against the governor for "false imprisonment-damages, £10,000." This is a sample of the disagreeable proceedings which took place in the infant state of the settlement, of which details are given in the South Australian Gazette, No. 6, for September, 1837, and in other numbers.

The next recommendation of the commissioners of a governor was even more unfortunate than the preceding. One of the chief claims of Captain Hindmarsh was, that he had distinguished himself at the battle of the Nile, and fought under Lord Nelson So, also, his successor, Lieutenant-Colonel Gawler, had been "present at many of the great sieges and battles in the Peninsula-Badajoz, Vittoria, Nivelles, Orthes, Toulouse, and lastly at Waterloo, where he commanded the right flank company of the 52nd, during the great charge on the imperial guards.' What evidence the meritorious conduct of a midshipman or captain of a company at the Nile and at Waterloo could afford of the adaptation of the individual for the peculiar duties of civil governor in a young agricultural settlement, it would be hard to divine. It is quite true, that naval and military officers have occasionally (though seldom) made exceptions to a rule. Much of the longprotracted misrule of some of our colonies soldiers and sailors as civil governors, irreanother opportunity will occur for the examination of this subject when treating of the Colomal Policy of the British Empire

The recommendation of the commissioners purchases, £43,221.

missed an emigration agent, named Brown, was, however, adopted; and Lieutenantfor neglect of duty and inhumanity towards colonel Gawler was appointed by the crown governor of South Australia; the resident lope, died in the public hospital at Adelaide, commissioner, Mr. Fisher, was removed, and in a state of destitution,) Mr. Fisher pub- the duties of his office were entrusted to Colonel Gawler, who thus represented, in his own person, the interests of the crown and those of the South Australian commissioners. he assumed the duties of his office in the colony on 12th October, 1838. An act of the imperial legislature, (1 & 2 Vict., c. 60), passed 31st July, 1838, amended act 4 & 5 William IV., and empowered the commissioners, or their representative in the colony. with their consent, to borrow such sums from the land fund as might be necessary for the efficient government of South Australia

The lords of her Majesty's treasury, on 9th November, 1838, issued minute instructions on the subject of expenditure 8th February, 1839, the resident commissioner, (Colonel Gawler), was allowed, on account of some additional charges, to increase his expenditure, altogether, to £16,500 per annum; and later in the year he was informed, that the commissioners would be ready to afford pecuniary aid, to any moderate extent, in erecting wharfs at Adelaide. and they approved of the erection of a government house and public offices, "the total cost of which was not to exceed the estimate of £25,162" It is asserted, that a "general authority" was also given to Colonel Gawler, as the resident commissioner, to deviate from his instructions under circumstances of indubitable necessity sales of land, up to this period, were not of such extent as to justify any extravagant hopes, or expenditure of money The Austrahan commissioners stated, that the whole of the land sold from the commencement of their proceedings on 15th July, 1835, to 7th December, 1837, consisted of 64,358 acres, for which they received £43,221. The details were—437 land orders, each for 135 acres, included in the preliminary sales, = 58,995 acres, £35,397, one deposit forefficient governors of colonies; but they are feited, £20, 200 land orders, exclusive of the preliminary sales, each for 80 acres at 12s. per acre = 1,600 acres, £960; land may be traced to the evil of appointing orders at 20s per acre = 3,200 acres, £3,200, investment for the purchase of land in the spective of their aptitude and fitness for colony, £50; amount received by the comsuch important and difficult duties. But missioner in the colony for sale of town sections by auction, not included in the 437 preliminary orders, 563 acres, £3,594; total number of acres, 64,358; total amount of

January, acres, 320; February, 400; March, by a few enterprising individuals risking 880; April, 1,200; May, 1,200; June, 5,920; July, 4,480; August, 4,640; September, 4,480 = 23,520 acres.

The state of the colony at this period may be judged of by the following extracts from the speech of the official gentleman who ruled the affairs of the province from the period of the departure of Captain Hindmarsh, to the arrival of Lieutenant-Colonel Gawler. The acting governor, Mr Stephens, after stating to the council the difficulties to be encountered, said-"I have first to announce, with regret, that there are no funds in the treasury, and the quarter's salary due to the whole of the public servants on the 30th June last, (1838), is at this day unpaid. Second-by the departure of the marines in H.M S. Alligator, this province, with a population exceeding 4,000 persons, is abandoned to the protection of eighteen policemen, lately embodied by governor Hindmarsh; and there are now twenty-one prisoners confined in the weather-boarded hut used as a gaol, and perhaps double that number of desperate runaway convicts in the neighbourhood of the town. Third—there are no funds for the support of the force now constituting our only protection Fourththe embarrassed state of the survey department, and the want of land."

October, 1838, at Adelaide, he found all things in confusion; * "the public offices with lots and buildings the principal occupations scarcely a pretension to system; every man of the people In 1839 there were only did as he would, and got on as he could; there were scarcely any records of past prosettlers in the country, no tillage; very

In 1838, the sales were stated to be- little sheep or cattle pasturing, and this only ther chance as squatters."

> These were herculean difficulties—quite nough to have occupied the energies of any governor, and to warn him against extravagant expenditure. Meanwhile the most strenuous efforts were made by the commissioners to raise money by the sale of land, and the real ments of South Australia magnified until the public were well-nigh led to consider it the only settlement worthy of being the residence of a free Englishman Large quantities of land were soon sold in London, where speculation was rife, in "town lots and country sections" Up to August, 1839, there were sold 250,320 acres of land, which produced £229,756, and 7,412 persons had arrived at Adelaide but many of the English purchasers who bought these lands have not received, to the present day, any returns for their outlay.

Instead of directing attention to the cultivation of the soil, and the real foundation of the colony, Colonel Gawler launched out into a most lavish expenditure in the erection of public buildings quite unnecessary in an infant settlement, and which kept large numbers of the labouring classes in Adelaide dependent on government works when they ought to have been clearing, ploughing, and cropping the land on their own account On the arrival of Colonel Gawler, on 12th By this means the price of labour became mordinately high, and speculations in town 2,500 acres of land under cultivation

The colonial revenue was about £20,000 ceedings, of public accounts, or of issues of per annum, the expenditure at the rate of stores; the survey department reduced to £150,000 per annum. In the first quarter the deputy surveyor-general (Colonel Light of 1839 it was £8,950, in the second quarhad resigned), one draughtsman, and one ter, £16,000, in the last quarter of 1839. assistant-surveyor—its instruments, to a great £34,000, and in the last quarter of 1840, extent, unserviceable, and its office with £60,155. The extravagance of all parties scarcely any maps of the country, and totally in the colony is abundantly proved in the without system, records, or regulations, the documents laid before parliament in 1843 colonial finances in a state of thorough con- Amongst the items in these papers is the fusion and defalcation; the population shut charge made by a police constable at Port up in Adelaide, existing principally upon Lincoln of "ten shillings for two pounds of the unhealthy and uncertain profits of land wax candles for a presoner for six nights;" jobbing; capital flowing out, for the neces- this was certified by the "resident magissaries of life, to Sydney and Van Diemen's trate," but the auditor subsequently re-Island, almost as fast as it was brought in marked—"it is not usual to allow felons any by passengers from England; scarcely any light in their cells; they are locked up when darkness sets in, and certainly do not require wax candles."

Individuals holding official situations under the government were allowed to supply

^{*} Despatch from Colonel Gawler to Lord Glenelg, her Majesty's secretary of state for the colonies, 23rd January, 1839.

stores for the service of the department in before an examination took place by an wasteful ratio. colonial revenue amounted at the utmost to an incapable financier. £30.000 a vear.

£90,000, which was expected to be replaced by the end of the year. This however was rendered absolutely impossible by the rapidity with which Colonel Gawler's bills came pouring in. The South Australian commissioners were, in August, 1840, compelled to lay a statement of their difficulties before Lord John Russell, who determined on instituting a parliamentary inquiry into the financial state of the colony, pending which inquiry there was no alternative but to dishonour the bills drawn by Colonel Gawler on the commissioners; which was done accordingly, to the great damage of the colony and of its interests.

Colonel Gawler was advised by the South Australian commissioners that no further funds remained in their hands, upon receipt of which intelligence he publicly notified his intention of drawing upon the lords of the treasury in his capacity of governor, for the purpose of paying the current expenses of the government. Large debts were thus contracted to store-keepers and others for supplies.

On the 26th of December, 1840, her which they held office, and the bills for such Majesty's government were compelled to stores were rendered and paid some months recal Colonel Gawler from South Australia; the grounds assigned by Lord John Russell auditor; among other stores thus supplied were "that he had drawn bills in excess of without any written authority, and for no the authority received from the commisknown object, I perceive in the list "three sioners." Whether this were so, or whether tins of wine biscuits, £6 6s.," about ten he had, as he appeared to believe, almost a times their value: "£105 for ten casks of carte blanche from the commissioners, there port wine," no statement of the number of could be no doubt of the necessity of his im gallons in each cask: "£4 10s. for six tins mediate recal from a position for which he (of 4lbs. each) preserved meat," or 15s. a had proved himself in an important respect tin, the then usual shop price in Adelaide so ill qualified. Mr. Dutton represents being 5s. To a bullock driver, 11s. 8d Colonel Gawler as possessed of many virtues, a day, and £4 a week for the hire of his and distinguished in private life by high bullocks. Everything else was in an equally intellectual attainments. This is, I believe, The annual government perfectly true, the colonists entertained for expenditure for the support of the different the gallant officer, whose moral conduct departments was about £94,000, exclusive of and personal character are unquestionable, buildings, roads, printing, emigration, and great respect; but her Majesty's government other charges, to meet this heavy outlay the were not the less bound to remove him as

It is the opinion of an intelligent gen-While the governor in his capacity as tleman—one of the first emigrants to South resident commissioner was thus drawing Australia—that many of the difficulties of upon futurity, the land sales in England the colony arose out of the unwarrantable were falling off, and the commissioners were interference of governor Hindmarsh with obliged to raise temporary loans for colonial Colonel Light and the resident commispurposes, borrowed from the emigration sioner. He asks-"Of what use was it to fund, which all persons purchasing land in proceed with the country surveys, when the the colony had been assured should be solely colonists were led to believe that the site of expended in conveying labour to South the chief town or city selected by the sur-Australia. By August, 1840, the amount veyor-general would not be confirmed by due to the emigration fund was upwards of the South Australian commissioners at home? Who would think of selecting or purchasing, and then locating on land, under such circumstances? The people were frightfully unnerved; this was the reason of the land not being tilled; the capitalist, the farmer, the emigrant remained in the town, squandering their money, and gambling in town allotments. Many of those people who, perhaps, held preliminary land orders, found, when the excitement subsided, and their land could be selected with safety, that their ready cash had vanished, and their land orders were mortgaged."

> There is a great deal of just observation in these remarks; but they appear to me an effect, rather than a cause. The Imperial Legislature clogged the act of Parliament authorizing the formation of the colony with injudicious restrictions; compelled a large quantity of land to be sold, and considerable sums of money to be raised before the act became operative. Instead of encouraging any body of Englishmen who would colonize the wastes of South Australia, obstacles

plish this most desirable object, which was colonists directed their attention to landattended with many formidable difficulties. Jobbing and speculation, and a profligate The proceedings of the South Australian waste of moncy had taken place in a manner commissioners added to the embarrassments utterly inconsistent with the success of the created by the act of Parliament; and, indeed, in some respects, they were the inevitable result of a primary error. even twelve shillings an acre for land, of Gawler. This officer carried off high literary which the very locality was unknown, was a honours at the Military College of Sandmost injurious perversion of a sound prin- hurst; in 1837-8-9, when a heutenant, he ciple of selling surveyed lands at a moderate voluntarily undertook, in company with fixed price. The appointment of conflicting Lieutenant Lushington, of the 9th regiment authority in the persons of a governor and a of infantry, an expedition of discovery to the resident commissioner, the unfortunate selec- west and north-west coasts of Australia tions made in Captain Hindmarsh and in (see page 379). The talent and judgment Colonel Gawler as governors, and the waste- evinced by Licutenant Grey in this arduous ful expenditure of the latter, produced a pursuit of knowledge, the local information climax which undoubtedly caused great distress, but from which arose a sounder system, on which the existing prosperity of this fine in his language and writings, made a strong colony now rests

The position of affairs is shown in the debate on the South Australian bill in parliament, on the 15th of March, 1841, when Lord Stanley stated that the colony had commenced on the principle of loans, had continued on a system of credit, its prosperity had been fictitious, and now the bubble was created had been discovered. The noble lord added, "he did not wish to enter into details, but when they saw that at the expiration of four years from the commencement of a per annum, the revenue of the colony not being more than £20,000; that the government-house had been built at an expense of £24,000 on sanctioned authority; that £22,000 had been laid out in the formation of a road across a swamp for the purpose of improving a harbour originally badly chosen, hardly obtainable in Liverpool itself for an acre); that there had been established three funds to carry on the government. banks carrying on business and issuing their own paper; that labour had reached the price

were interposed in their attempts to accom- the support of the colony, the whole of the colony."

Captain Grey, late of the 83rd regiment. Twenty, or was appointed to succeed Lieutenant-Colonel which he possessed of South Australia, and the comprehensive mind which was evident impression on Lord John Russell, then secretary of state for the colonies, and induced his lordship to recommend to the Queen for the government of South Austraha, a gentleman who, whether a soldier, sailor, or civilian, was evidently adapted for the responsible duties entrusted to his care

On 19th March, 1841, the house of Comburst, and the full mischief which had been mons temporarily voted £155,000 towards the liquidation of the bills drawn on the South Australian commissioners by Lieutenant-Colonel Gawler, which the commissioners had no funds to meet. colony there was an expenditure of £110,000 Grey arrived at Adelaide in May, 1811, he found the balance in the hands of the colonial treasurer only £700, and the anticipated expenditure for the quarter, £32,000, and about £3,000 remaining due from last quarter. At the same time, £35,000 of claims left unsettled by Governor Gawler were clamorously pressed upon Governor that lands bought for 12s an acre were sold Grey for liquidation The sales of land had in the hardly created town of Adelaide for all but ceased, the revenue was decreasing, £500, £1,000, or £1,500 an acre (a price the colonial establishments were unnecessarily large, and there were little or no South Australian Bank offered Governor Grey a loan of £10,000, at twelve per cent., of from 6s. to 12s per day; that a body of on his personal security, this he properly police was established, paid at the rate of declined—the crown property in the colony £1 19s per week each man, who complained he was authorised by her Majesty's minisof the inadequacy of their wages, because ters to sell, but the derangement in the they were unable to procure their white money market caused by the proceedings of trousers and gloves to be washed for it- Lieutenant-Colonel Gawler, rendered such a what, he asked, was the consequence of all measure impossible, no alternative remained, this?—that there were not 200 acres of but to postpone any attempt at liquidating land in the colony actually under tillage for the bills of his predecessor, until the issue country, or if they did not, Governor Grey profitable buildings in town, to lucrative £10 New South Wales government; the Lords of the Treasury defrayed the cost of completing the requisite work on the public buildings, the pauper emigrants, and the police establishment.

In July, 1841, Governor Grey met the Legislative Council with reduced estimates,

as follows .-

Reductions in	1841	1842
Survey and Land Department Emigration "Storekeeper's "Police, mounted and foot . Customs department Harbour Master's "Gaol "Port Lincoln	£14,850 6,927 23,748 16,109 9,769 3,944 2,141 1,299	£3,635 390 340 9,112 2,478 1,612 1,034 572

There were also various minor reductions, and several useless offices abolished. The wages given by government to the emigrants were reduced from 1s 6d. a day, with rations, to 1s. 2d. without rations, and they were withdrawn from Adelaide, and employed in making bridges and in opening lines of communication, such as the Great Eastern road, to the valuable Mount Barker district.

Her Majesty's secretary of state for the colonies and the lords of the treasury effectively supported the measures of Governor Grey, and, in a despatch of their lordships to Lord Stanley, of 26th April, 1842, they stated that, "the governor had acquitted himself in an able and satisfactory manner, of the important trust which had been placed in him."

of the pending parliamentary inquiry should a return to a sound state necessarily caused be known. Retrenchment was everywhere a rapid fall in the price of land and houses. begun—the government works which could and there were many bankruptcies Nearly not be left half-finished, without the risk one-half the population of the province of dilapidation, were completed so far only (8,500) had crowded into Adelaide, among as was absolutely necessary; the labourers, whom had been spent, during the twelve who had for eighteen months been em- months preceding the arrival of Governor ployed at high wages, were urged to betake Grey, about £150,000, which had been prothemselves to agricultural labour in the cured by drawing bills on the South Australian commissioners in England. treated them, to the number of nearly 2,000 large sum was distributed in the form of men, women, and children, as mere pauper salaries, allowances, and lucrative contracts. emigrants, but allowed none to want the The whole population of South Australia necessaries of life; by this means, the ener- was then less than 15,000 (14,061), who gies of the people were directed from un- thus received, man, woman, and child, each And although there was abundance tillage and pastoral pursuits. A sum of of the richest land around ready for the £3,000 was obtained as a loan from the plough, the immense sum of £277,000 was sent out of the colony during the year 1840, for the purchase of the necessaries

> The character of Governor Grev was manifested by the exercise of a wise statesmanship, and the firmness with which he resisted the clamorous demands made by tumultuous bodies of men using seditious language, and marching in organized array to government-house, threatening the representative of their sovereign, whom there was no military to protect. But these and other unjustifiable proceedings, did not prevent the governor contributing £400 in one year to charitable purposes, out of his limited income of £1,000; and to his honour it is recorded, that "real poverty and distressed merit never in vain sought relief."

> In November, 1841, with a view to the relief of the colony, whose mercantile community was limited, Governor Grey drew upon the lords of the treasury for the amount of the bills which Colonel Gawler had drawn, but which were then dishonoured by their lordships. For this proceeding Governor Grey was slightly censured by the Secretary of State; in justification he alleged that Parliament had voted £155,000 to liquidate the dishonoured bills of Colonel

Captain Frome, of the Royal Engineers, who had arrived in the colony with a small detachment of that excellent scientific corps, undertook to perform, gratuitously, the arduous duties of colonial engineer. Under the active superintendence of this able officer, the land surveys made rapid progress, and by the end of 1841, claimed spe-During the administration of Governor cial surveys of 4,000 acres each, to the Gawler, everything had a fictitious value; number of thirty-five, were completed, and

306,000 acres were declared open for the the colony. selection of new immigrants. surveying was reduced from an almost unknown large sum, to 71d, per acre.

The recommendations of the select committee of the house of Commons were not immediately carried out, owing to the change in the ministry; but on 5th July, 1842, Lord Stanley, her Majesty's secretary of state for the colonies, with his accustomed ability and clearness, laid fully before the legislagives as follows .-

1	Parliamentary grant, advanced in 1841 £155,000
II	Bills of Lieutenant-Colonel Gawler 27,290
ш.	Bills of Governor Grey, on account of emigrants maintained at the public 17,646
IV	Amount borrowed by South Austra- lan Commissioners, bearing interest at 6 to 10 per cent per annum 85,800
v	Outstanding debts of Lieutenant-Colo- nel Gawler's Government 35,000
VI.	Amount borrowed from Land and Emigration Fund 84,697
	Total £405,433

This was an unfortunate illustration of what was termed the "self-supporting system of colonization;" in about four years the colony had incurred debts to the amount of £400,000, irrespective of its land sales to settle the debt of South Australia, thus by parliament, II and III to be paid by the British treasury; IV. to remain as bonds with the holders, at an interest of three ploughs and harrows were in great demand and-a-half per cent. guaranteed by her Majesty's government, and for which provifund; V. and VI, to be covered by deben- there were not sufficient hands to reap it, terest not exceeding five per cent. Australia," was passed 15th July, 1842.

should have been entailed as a burden on the company authority to select 12,000

The question was one which The cost of it was utterly impossible to solve to the satisfaction of all parties-for, whether the penalty of Colonel Gawler's grievous improvidence was to be paid by the ruin of the colony, or averted by a heavy sacrifice at home, it would in either case be borne by the innocent. Her Majesty's government. in agreeing to pay upwards of £250,000 out of the taxes raised from the people of England, towards a debt which, although ture the state of South Australia, and of incurred by their representative, holding the habilities incurred, which Mr. Dutton under them authority whose measure, whatever it may have been, he doubtless greatly exceeded --certainly evinced no desire to shrink from the responsibility which they had incurred in sanctioning the unwise selection of the Australian commissioners. The money, it must be remembered, had been actually spent (though in a manner most lavish and ill-timed) in and for the colony, and the public buildings therewith constructed, would eventually benefit the South Australians. The dishonouring of the bills drawn by Governor Grey in payment of Lieutenant-Colonel Gawler's expenditure at Adelaide, necessarily increased the financial difficulties of the colonial government; Governor Grey was obliged to borrow £1,800 from the commissariat chest; during 1842, 136 writs were passed through the sheriff's court at Adelaide, thirty-seven fiats of insolvency were issued, and out of and local revenues. Lord Stanley proposed 1,915 houses built in Adelaide, 642 were found, in December, 1842, totally deserted, -I. (£155,000) To be made a free grant their inhabitants having proceeded into the country to labour in raising the means of subsistence from the fertile interior, where

At the beginning of 1843 every ablebodied man was at work on his own acsion would be made out of the consolidated count; the harvest was so abundant, that tures issued in South Australia bearing in- and the soldiers and government employés His were permitted to aid the farmers in securing lordship also proposed to insert a sum of the real wealth of the colony. The revenue £15,000 in the estimates, to aid in carry- began to improve, the exorbitant port dues ing on the local government in 1842. The which had been levied by Governor Grey resolutions of the noble lord were agreed to to increase the "ways and means," were by a large majority, and an act "for the abolished, and the post road which had better government of the province of South been constructed by the South Australian Company, at an expense of £13,400, under I cannot agree with Mr Dutton, that an agreement with Governor Gawler, that Parliament could be expected to sanction twelve per cent interest was to be paid on the payment of the dishonoured drafts of the capital expended, by the colonial govern-Governor Gawler, or the renewed drafts of ment, or that a toll might be levied, was Governor Grey, and that no portion of them compounded for by Governor Grey giving

Australian colonies and New Zealand," which enacted that all lands should, in covered with a beautiful green moss. should not exceed 20s. per acre. purposes.

In 1843 the whole of the land sales in South Australia amounted to only 598 but for a discovery then made, the colony of land. Among the eighty-acre sections sold (Kapunda), was soon ascertained. in 1843, there was one on the river Light a discovery which led to further researches, and gave a stimulus to the enterprise and industry of the colonists, which has ever since continued, and has been the means of greatly enriching South Australia. The circumstances connected with this important epoch in the history of the province deserve detailed notice.

For several years after our occupation of the province of South Australia, no suspicion was entertained of the mineral riches to be found there, and the crown unreservedly granted, in fee simple, the ground and everything beneath it. Up to 1843, more than 300,000 acres of land had been surveyed and appropriated, and 300,000 more were surveyed and open to selection, but no one noticed the copper and lead which were nevertheless "cropping out" on the surface in so many places. During the latter part of the year 1842, a son of Captain Bagot, while gathering wild flowers in the plain, found and conveyed to his father Fortunately for the colony, an intelligent settler named Dutton, to whose interesting work, entitled "South Australia and its Mines," I am materially indebted for details concerning its early history, had been educated at the institute of M. de Fellenberg, at Hofwyl, in Switzerland, where considerable population. during the annual pedestrian tours of the

acres of land out of the surveyed districts, mineralogy. One day, when in search of in full of all claims on this account. The one of his flocks of sheep which had disland sales were, however, checked partly by persed during a thunder-storm, he ascended the distressed state of the colony, and partly a hill to obtain a view of the surrounding by the operation of an act passed by the country, and, if possible, find his sheep. Imperial Legislature, 22nd June, 1842, "for Wet, weary, and cold, from having been out regulating the sale of waste lands in the all day, he pulled up his horse beside a rock which, at first sight, he supposed to be future, be disposed of by public auction at habit acquired in Switzerland, of examining the minimum price of 20s per acre, except any rocks or stones which presented a blocks of 20,000 acres, of which the price curious appearance, induced Mr. Dutton to Under dismount, when he found a large protrudthis act, half (not all) the proceeds of the ing mass of clay slate strongly tinged and land sales were to be applied to emigration impregnated with a mineral which he supposed must be copper, from the close resemblance of the colour to verdigms. Dutton being on intimate terms with Capacres; the proceeds, to £613 13s 9d, and tain Bagot, communicated his discovery to him, and the value of the mineral found would have had to maintain a long and by the young florist on the plain, and by difficult struggle against the enhanced price the sheep farmer on the adjacent hill

Captain Bagot and Mr. Dutton kept their which was found to contain rich copper ore; own counsel; got a section of eighty acres surveyed, which according to the then land regulations, was advertised for a month in the government gazette; they then became the fortunate purchasers, at the fixed government price of £1 per acre, although there were a number of "eighty-acre land orders" previously granted to individuals in the colony, who might have selected this section. What the marketable value of this tract may now be, it would be difficult to say; in April, 1845, Captain Bagot and Mr. Dutton bought another lot of 100 acres, adjoining their original purchase, which they found contained rich lodes of copper ore; but on this occasion, instead of buying the 100 acres for £100, it cost them, after a sharp contest by public auction, £2,120. The great value of the ores soon became known, and the eighty-acre section containing the Montacute copper mines, put up for auction by government at £80, sold The Kapunda copper ores for £1,550. taken from the surface were sent to Enga fine specimen of the green carbonate of land, and found to yield twenty-three per cent. Some Cornish miners pursuing quietly agricultural pursuits in the colony, were soon engaged by the proprietors; and a place which a very few years since was a perfect wilderness, is now a thriving township, affording profitable employment to a

The attention of all classes was now dipupils, he had acquired some knowledge of rected to geological and mineralogical knowshepherds, who frequently could not find any- the total (2,804 acres) yielded £30,081. thing but a piece of metallic ore to throw at a stray beast, were the principal discoverers of speculations the valuable minerals which lay everywhere exposed to the most ordinary observation.

The Montacute copper mine, distant ten miles from Adelaide, was discovered by Mr. Andrew Henderson, overseer to Mr. Fortnum, while in search of a lost bullock. Mr Henderson, when ascending a spur of the Mount Lofty range, remarked the green colour of a perpendicular cliff, broke off a piece, and conveyed it to Mr. Fortnum, who, from his chemical and mineralogical knowledge, instantly recognised the specimen as a rich copper ore.

Messrs Fortnum and Henderson did not keep their secret; and when the government had surveyed the eighty acres reguired, and the section was brought to sale (16th February, 1844,) under Lord Stanley's regulations, instead of £80, the purchasers had to pay £1,500. In a few hours after the sale, however, they sold thirty hundredth parts for the cost of the whole, in £50 shares,

to a mining company.

Mr G F. Angas has also had the good fortune (which he richly deserved, for his unceasing efforts to benefit South Australia,) to discover valuable mineral treasures in his extensive property, and has leased the mines on advantageous terms to mining associations.

Furnaces for smelting the ores of copper and lead, and refineries for separating silver from the argentiferous ores, have been erected near the different mines, and works which will cost £70,000 are now in course of construction near the Burra-Burra mines Copper and lead ores will be smelted on the spot, rolled, and shipped direct to the avail-

able markets of India and China.

In consequence of the mineral riches contained in the province, the sale of land, which in 1843 was at a very low ebb, has since that date considerably increased. Two special surveys, of 20,000 acres each, have been demanded, and the purchasers paid £40,000 for the same. The Kapunda mining land yielded £3,008; the Montacute. The Burra-Burra territory cost the original proprietors £11,000. The total amount paid for mineral lands, from 1843 to 1847, was about £70,000. A sale of the crown lands surrounding the Kapunda and the discovery of its readily available mine, realized for the first section of eighty mineral stores, were equally unforeseen by acres £7,100, or about £90 an acre; another the founders of the colony.

ledge; but the overseers, herdsmen, and section brought £80, others, £20 to £30;

But these proceedings were not mere wild Messrs. Bagot and Dutton. who bought the first eighty-acre mineral section (copper) at Kapunda, for £80, subsequently refused, in London, £27,000 for their land; and they have from the commencement worked entirely on the ores, without risk, and without the advance of a shilling being required from the proprietors. The first lead ore sent (in 1841) from Adelaide to England sold for twelve guineas a The different ores raised in South Australia probably exceed in value one million sterling; and the amount is annually increasing Agricultural as well as pastoral pursuits have not been neglected; but have flourished, by means of the wealth derived from the mines

The subsequent chapters will show the progress of the colony, when the revenue began to exceed the expenditure, and the exports the imports; the extension of cultivation: and the augmentation of wealth.

Governor Grey remained long enough at Adelaide to witness a pleasing change in the feelings and language of the inhabitants towards him; and when, in 1845, her Majesty's government resolved to confide the administration of affairs in New Zealand to his proved judgment, his excellency quitted the scene of his difficulties, and of his triumphs, with the esteem and heartfelt gratitude of those he had so efficiently governed

The task of his successors has been comparatively an easy one. Governor Grey was succeeded, in 1845, by Major Holt Robe, of her Majesty's 87th regiment, late military secretary at Gibraltar; and Major Robe, in 1848, by Sir H. E. F. Young, who filled with credit to himself for several years the post of secretary to the government of British Guyana, was next appointed lieutenantgovernor of Eastern Africa, from whence he was removed to the responsible position of heutenant-governor of South Australia, which station he now occupies.

The facts contained in the previous pages go far to show that South Australia cannot fairly be quoted as an argument either for or against the system adopted in its formation; since the leading causes both of its past disastrous and present successful state, viz., the improvidence of Colonel Gawler,

CHAPTER II.

POSITION, AREA, PHYSICAL FEATURES—COAST LINE—HARBOURS, MOUNTAINS, RIVERS. AND LAKES—GEOLOGY, MINERALOGY, AND SOIL—CLIMATE AND SALUBRITY.

ble the dimensions of the British isles. Of now proceed to notice. this extensive territory, the greater part is, if the Murray, in 34° S. lat.; Yorke peninsula, into the Great Australian Bight. ever, but very imperfectly examined.

grandeur imparted to the adjacent colony of tions. Port Phillip, by the lofty summits of the Auspicturesque scenery; and its only serious defect, the want of navigable rivers, is in great measure remedied by the accessible nature of the country.

COAST LINE.—The sea-board of this province, roughly estimated at about 1,500 miles, trends in a general south-east direction from the 132nd meridian, which falls on the coast a little to the westward of Cape Adieu, to the 141st meridian, a short distance eastward of Cape Northumberland, and is, throughout its whole length, indented Point Peter, and formswith numerous deep and extensive bays, (besides the two great Gulfs of Spencer and sea-coasts of this hemisphere, that of South morass. Australia is bordered by many small islands.

THE province of South Australia is situated few of which are of any considerable size, between 132° and 141° E. long, and ex- Kangaroo island being the chief exception, tends from the sea coast on the south, and rocks, reefs, and shoals, frequently inland, to the twenty-sixth parallel of lati- render the entrances to the inlets intricate The area comprised within these or dangerous, to a great extent neutralizing limits is estimated at 300,000 square miles, the advantages presented by the indentaor 192,000,000 acres, being more than dou- tions of the coast, whose leading features we

Tracing the sea-line in the direction in not totally unexplored, at least very imper- which we have before stated that it trends, fectly known. According to a recent local the first haven met with is Fowler's Bay, authority, the only portions which have as which, though it affords but indifferent yet been examined are, the peninsula formed shelter, is valuable from being the only by St. Vincent's gulf, on the west, and Lake harbour for several hundred miles; the dan-Victoria or Alexandrina and the Murray, gerous nature of the shores to the east on the east; the western boundary extend- of the province being rendered yet more ing from Cape Jervis to the great bend of hazardous, by the strong current which sets between the Gulfs of Spencer and St Vin- chorage is good, and although it is open to cent, and the peninsula of Eyria, the boun-three points of the compass, it is evident, daries of which extend from Sleaford bay, from plants growing close to the water-side, in a northern and eastern direction as far as that a swell capable of injuring a vessel at the head of Spencer's gulf, and in a northern anchor is seldom, if ever, thrown into it. and western direction as far as Streaky bay; Between Fowler's bay and Point Bell, the the latter of these tracts have been, how- coast is moderately elevated, but barren and sandy; it is broken into three sandy bights, South Australia, though it has not the separated from each other by rocky projec-

Nuyt's Archipelago is situated in the extralian Alps, possesses, nevertheless, much tensive curve of the main coast between Points Bell and Westall, which comprehends several deep bays. The principal islands of this Archipelago are those of St. Peter and St. Francis, of the former, the most considerable, is low and sandy, about six miles in length and three or four broad. On it is a well dug by a sealer, who lived there many months. The shore abreast of it is of the same character, and connected with it by a shoal and some dry rocks, whence the shore trends round to the north and west, towards

Denial Bay, a good harbour, said to afford great facilities for whale fishing. St. Vincent), which though as yet very im- the north side of Point Peter is a small perfectly known, are supposed to be, with boat harbour, with four fathoms at its few exceptions, the resort of the whale entrance; but this depth rapidly decreases, during the rainy season. Like most of the and the creek terminates in an extensive

The Isles of St. Francis are eleven in

number, they compose the south-western- tion. Flinders, who discovered it, gives a most group of Nuyt's Archipelago; but one different and almost contradictory account only of them, situated in the middle of the of its capabilities; for he states that no cluster, is of any considerable size; it bears fresh water could be found, nor could firethe name of the whole about three miles in length, and about half- without difficulty; yet it was frequented by andy isthmus, connecting the moderately roos; and at a former season, probably durhand cliffy extremes, whose breadth is ing the spring, had been visited by geese. from one-and-a-half to two miles. The dark brown birds called sooty petrels, abound vestigator's group, hes close to the main here, and a large bird called the barnacle land. Anxious Bay is situated between it goose, occasionally frequents the island

Smoky Bay is six or seven leagues across, but very shoal and dangerous of entrance, being much exposed to the south and west. Point Brown, its eastern extremity, is a low sandy projection, in 32° 37′ S lat, 138° 48′ it is low, about three miles in circumference, and surrounded by breakers.

Cape Bauer, the space between them is occupied by a bight, skirted by a sandy beach, and open to the westward, which received from the French, who, it will be remembered, explored about 100 miles of this coast, the name of Corvisart Bay

Cape Radstock, a bold projection, in 32° 12' S lat, 134° 15' E long, forms the southern extremity of a range of limestone cliffs, that line the shore for about six miles to the north-west; from thence to Point Weyland a large body of water runs parallel to the coast, having an entrance at both points

The Investigator's Isles lie off this portion of the sea line. Flinders' Island, the largest and most central, is in shape nearly a square, each side of which is from three to five miles in length, with rocks projecting from the intermediate points. Bights are formed on the four sides, but the northernmost alone island, according to Captain Lee, is covered elevated; the westernmost of the group is a with wood, possesses plenty of fresh water, cluster of small rocky lumps called the Four and is admirably adapted for a whaling sta- Hummocks.

Isle St. Francis is wood, even of very small size, be procured a-mile across, near the middle, which is a hair seals, sooty petrels, and small kanga-

Waldegrave Isle, the most easterly of In-

and Cape Radstock

Proceeding in a south-easterly direction, the next feature worth noticing is Coffin Bay, a whaling station of some importance. It is rather an inlet than a bay, and stretches so far into the land as to approach within E. long, between which and Cape Bauer a sixteen miles of Boston Bay, which lies cliffy headland, extending four or five miles nearly opposite to it, on the eastern side into the sea, is the low sandy shore of of Flinders Peninsula. It is seven or eight Streaky Bay, a beautiful and extensive harmiles across, and is well sheltered from all bour, which obtained its name from its inner winds, save from north to east, but, unforportion being filled with light-coloured, tunately, a great portion of it is rendered streaky water, bearing on its surface much useless by the shallowness of the water. refuse from the shore, and sea-weed. Whales The inner portion of the bay, however, is are very numerous in this bay, and oysters said to contain two or three secure harbours, are procured here in immense numbers, and with excellent anchorage. About two miles of excellent flavour. At the distance of four distant from the sandy east shore of Coffin or five miles from Cape Bauer lies Olive's Bay is Mount Greenly, a well-wooded hill, Isle, the south-east of Nuyt's Archipelago; which rises between 600 and 800 feet above the level of the sea, and is remarkable as being the first elevation of any importance Point Westall is somewhat higher than marking the difficult and dangerous coast we have just been tracing. Mr. Cannan, who examined the coast, in 1840, as far as Fowler's Bay, says that there is no "rise that can be called a hill from Mount Barren to Mount Greenly," and speaks of the eternal limestone cliffs, and the scarcity of water and grass, along these shores.

To return, Fowler's Bay is sheltered on the south and west by a barren and sandy tongue of land, whose northern extremity is named Point Sir Isaac (in honour of Sir Isaac Coffin), and the western, Point Whidbey. To the east of the latter hes Avoid Bay,

a large ill-sheltered inlet

Point Avoid, the south-east head of Avoid bay, is low, and has two small rocky islets connected with it by a reef lying off from it to the extent of nearly three miles. are the easternmost of Whidbey's Isles, which extend in a line nearly five leagues from appeared to afford good anchorage. The Point Avoid, and are small but considerably Perforated Isle, the largest and nearly the central of Whidbey's group, is about a mile in length, and near its summit has an excation through which the light is admitted in both sides. Granby's Isles, three small high islands, with a peak on the easternmost or largest, said to be visible ten leagues off in clear weather, he fourteen or fifteen miles off Point Whidbey.

Cape Wiles is a steep cliffy head in 34° 57′ S. lat., 135° 38′ 30″ E. long., with two high rocks and a lower one near it. Laguanea Island hes about three miles from the shore, is of moderate elevation, and about a mile

and-a-half in length.

Sleaford Bay is seven or eight miles across, and about four in depth, but being quite unsheltered from the southerly swell that rolls in so frequently upon this part of the coast, is of comparatively little value. It is occasionally used as a whaling station. Sleaford Mere is a shallow lagoon about four miles long and one broad, situated two or three hundred yards from the sea beach of Sleaford Bay.

Cape Catastrophe, so called from a boat's crew belonging to H.M S Investigator, whose names were afterwards given by Flinders to the islands in Thorny Passage, having been lost in the strong tide ripplings of this shore, marks the western side of the entrance to Spencer's Gulf. It has a round smooth summit, clothed with vegetation; three miles to the south of it hes Williams Isle.

We have now arrived at the deep gulf, which stretches into the land for nearly 300 miles, extending to 32° 30′ S. lat. It becomes quite narrow and shallow at the top, and appears at one time to have communicated with Lake Torrens. The extreme saltness of its waters throughout renders it only too probable that no fresh water stream of any importance disembogues within its limits

The entrance of Spencer's Gulf is about fifty-five miles across, several islands are situated in it, of which, by far the most important, Thistle Island* is about twelve miles in length, and from half-a-mile to two miles broad, affording good pasture for sheep.

* No fresh water could be found on this island by Captain Flinders, who explored it in 1802, he states that he found seals upon the beach, and further on numberless traces of the kangaroo Signs of extinguished fire existed everywhere, but they bespoke a conflagration of the woods of remote date, rather than the habitual presence of men, and might have arisen from lightning, or from the friction of two trees in a strong wind On their way up the hills a speckled yellow snake was met with asieep, measuring seven

Gambier Isles he to the south-east of Thistle Island; the chief of them, Wedge Island, is so called from its wedge-like form. Neptune Isles are low, rocky, and surrounded by breakers.

Thorny Passage, formed between Thistle Island and the main, is from four to six miles wide. It obtained its name from the numerous small islands which contract its southern entrance so materially as to leave only about a mile-and-a-half of its breadth safe for ships, the depth there being twenty and twenty-two fathoms

From Cape Catastrophe the shore of the gulf trends to the north, till on rounding Cape Donnington, in 34° 44′ S. lat, 135° 57′ E long., the north harbour of Port Lincoln opens to view, with its three branches-Spalding Cove, Port Lincoln proper, and This magnificent haven, from Boston Bay its great extent, and the number of its secure and sheltered anchorages, is capable of containing the largest fleets, and as a depôt can scarcely be surpassed by any port in the world. It is said strongly to resemble that of Rio Janeiro The first object that strikes the eye is Stanford hill, on the summit of which is a white obelisk, erected to the memory of Flinders by Lady Franklin, marking the spot whence that celebrated navigator first beheld Spencer's gulf. At the entrance of Boston bay is Boston island, a hilly and romantic-looking spot, scattered here and there with casuarina trees, and clumps of various shrubs, and its shores indented by a succession of deep bays. It is uninhabited. only the solitary grave of an emigrant occupies a glen on that side of the island which looks towards the settlement from across the bay † The anchorage in Boston bay is considered even safer and more accessible than that of Port Lincoln proper. The two channels of entrance into the bay, round the island, are practicable for vessels of the largest size, with any wind, or in any weather; for the harbour is so sheltered by the headlands forming the entrance, that the swell of the sea is broken before reaching it. The high ground which

feet nine inches, and on his return a white eagle, with fierce aspect, and outstretched wings, bounded towards them, but stopping short at twenty yards off, flew up into a tree. Another eagle discovered himself by making a motion to pounce upon them, evidently mistaking them for kangaroos. These birds it watching in the trees, and should a kangaroo come out to feed in the day time, it is seized and torn to pieces—Flinders' Terra Austialis.

† Savage Life, by G. F. Angas.

almost surrounds Boston bay, protects it S. lat., to the latitude of Mount Remarkable, in like manner from the winds, more espe- 32° 43', contains a commodious harbour, cially those from the west and south-west, well sheltered, and of easy access. A long in which directions some of the hills attain sand spit, stretching from the point (not the height of several hundred feet. The named) of the eastern coast, opposite to depth of water in the central parts of the Point Lowly, dry at low water, shelters the bay is about twelve fathoms, varying from five to seven, at the distance of less than a whilst at Boston point, where the town has been laid out, there is a depth of two, three, from the land The tide sometimes rises seven feet, but usually not more than five; this depends, however, on the outward state of the gulf, and the quarter from whence the wind is blowing In the summer season, the land and sea breezes blow very regularly for three weeks or a month at a time. They are then succeeded by strong winds from the south-west, that last for three or four days, and are sometimes very violent. In winter, these interruptions to the usual calm state of the weather are more frequent, but the harbour is little influenced by them. (See Captain Sturt's Account of South Austraha in 1847.) To the east and north-east of Port Lincoln are scattered numerous islands, known as Sir Joseph Banks' group, whose names and positions are sufficiently indicated on the map.

Our information respecting the shores of Spencer's gulf is too fragmentary to afford materials for any connected account. From Port Lincoln to Franklin harbour a succession of rocky bays occur, many of them with fine sandy beaches, and shelter for small Short reefs run out from all their points, but outside of these, and generally between them, the water is deep, and apparently clear of dangers.

Franklin Harbour affords good and wellsheltered anchorage; it is the port at the entrance of Lake Flinders, a sheet of water eight miles in length, by two in breadth, the greater part being, however, very shallow, and surrounded by mangrove swamps. In 1846, the head of the gulf was examined by the heutenant-governor, Colonel Robe, for the purpose of ascertaining an eligible place of ing anchor. The western shore of the bay most located part of the province. The (from forty to fifty feet in height), clothed chief result of his expedition was the dis- with grass and casuarina trees, terminating in covery that that portion of the gulf there, Point Davenport, a flat rocky point which diately north from Point Lowly, in 32° 57' west gales.

anchorage from southerly winds.

Port Germein, situated about twelve miles quarter of a mile from the shore all round; south-east by east from Point Lowly, affords good shelter for small craft. The port is bordered by mangrove swamps A sandand four fathoms, at about a boat's length stone hillock, called Benjamin's hill, marks The bottom consists, in the north-east side of the entrance, whilst at some places, of mud, in others, of shells and the south-west entrance is a low mangrove point, off which a broad sand-shoal extends for many miles into the gulf.

The eastern shores of Spencer's gulf, formed by Yorke Peninsula, are marked by Port Victoria, situated at the spot termed by Flinders Point Pearce, now occasionally called Wardong Island, in whose neighbourhood there are stated to be several safe and commodious anchorages: further to the south, and nearly opposite to Port Lincoln.

an extensive and well-sheltered inlet, called Hardwicke Bay. Cape Spencer, the extremity of Yorke peninsula, is in 35° 17' S. lat, 136° 52' E long; off it lies Althorpe Island, a rocky islet, frequented by innumerable sea-fowl, in Investigator's Strait.

The Gulf of St Vincent is about half the size of Spencer's gulf, which it resembles in the swampy nature of the shallow water at the top, and the perfect saltness of the water where both shores unite. Kangaroo Island, which hes across its entrance, effectually protects it from the swell of the heavy southerly seas, and forms two wide and safe passages, the western being known as Investigator's Strait, the eastern as Backstairs Passage. The navigation of the gulf itself is throughout easy and perfectly free from hidden dangers. In Investigator's strait, on the southern coast of Yorke Peninsula, nearly midway between Cape Spencer and Troubridge Shoal, is an extensive bay, called Sturt Bay, which affords good and safe anchorage, for although open to the south and south-east, winds from these quarters, owing to the narrowness of the strait, do not raise a sea sufficient to impede a vessel in weighshipment for the produce of the northern- is formed by a promontory of sand hills about ten miles across, extending imme- forms an effectual breakwater during south-

On the eastern coast of Yorke Peninsula, ward of which is a remarkable detached i.e. the western shore of St. Vincent's gulf, nearly opposite to Adelaide, is a good harbour, called Port Vincent. Between the head of St. Vincent's gulf, in about 34° 30' S. lat and Port Adelaide, its eastern shore is alternately lined with mangroves, or low and sandy, affording nevertheless several commodious havens for small craft. The most important of these is Port Gawler, an inlet or channel surrounded on either side by mangrove swamps, by which the little river Gawler enters the gulf. The next important inlet is that which contains Torrens Island, and terminates in the large creek on whose eastern bank Port Adelaide* is situated. From thence to Holdfast bay, which hes about fourteen miles to the southward, a sandy beach continues backed by sand hummocks, that conceal the nearer country, but are not high enough to impede the view of the summets of the Mount Lofty range, distant about eleven or twelve miles.

Holdfast Bay, behind which is the fertile and beautiful tract called Glenelg Plains, is not very appropriately named, being in fact an open roadstead, exposed to north-west, west, and south-west winds, which, when blowing hard, raise a short tumbling sea. The ground is a fine sand, almost covered with weeds, so that when the anchor once starts, the weeds being raked up under the crown, will in a great measure prevent its again holding. In the summer months it may be considered a perfectly safe anchorage, if due caution is exercised in giving the the bay is an inlet of the sea, on which boats can enter and discharge their cargoes at high water, but at low water they are obliged to unload on the beach, owing to a bar of sand at the entrance. The southern arm of the bay is formed by the termination of the range of hills running from the north. few miles from this bay the coast becomes bold and rugged, and, excepting one small sandy bay, into which a fresh-water stream oozes, continues so to the outlet of the Onkaparınga, the largest river on this side the gulf. There is a bar at its entrance. over which boats can only pass at high water, and it is salt as far as the tide flows, about three miles. There is no anchorage at this part of the coast.

Noarlunga township is situated near the mouth of the Onkaparinga, to the south-

rock of a tabular form. Near this point some extensive gravel pits, with deep chasms and gullies, are very conspicuous; from these a gentle slope of nearly a mile runs along the coast into the plains, with an extensive beach of sand and shingle, forming a very narrow bay, called by Colonel Light Deception Bay. The scenery now becomes exceedingly diversified, dark cliffs and small sandy bays, with grassy slopes, almost to the water's edge, succeed each other, backed by moderate hills, sparingly covered with trees, and broken into numerous valleys. Thus passing Aldinga Bay, the outlets of several small streams, Yankallilla Bay and river, we arrive at a deep bay, protected on all sides by rocky mountains, and backed by a beautiful little valley surrounded by an amphitheatre of hills, richly covered with kangaroo grass, from which descends a small fresh-water stream, flowing through the valley between high banks, and abounding with fish. The hills here do not run in one continuous longitudinal range, as higher up the gulf, but to Cape Jervis, seven or eight miles southward, are thrown together as it were without any arrangement. They are covered, however, with good soil, are in many places well wooded, and enclose fertile valleys and rich openings, with numerous small streams. A rocky point, called by Captain Flinders, North-west High Bluff, forms the northern extremity of "Pat Bungar," a small but secure boat harbour, surrounded on all sides by low sloping hills. vessel cable in time. † About the middle of In the vicinity of Rapid Bay the cliffs in many places rise perpendicularly to a considerable height, and are veined with micaceous schist, or mica slate, with occasional veins of dolomite and other minerals. per ore has been found here. A few miles beyond is Cape Jervis, the projection which marks the eastern entrance to the gulf, whose shores (with the assistance of several authorities, but especially of the recent volumes of Sturt and Angas) we have now traced to their termination.

Kangaroo Island lies twelve miles south of Cape Jervis. Its length and area are differently estimated; but it is generally stated to be about seventy-eight miles, and thirty in breadth, with a superficies of 2,500,000 acres. The principal features of the land, as seen from the western coast, are swelling rounded hills, clothed with thick scrub, intermingled

^{*} For description of Port Adelaide, see city of Adelaide, in a subsequent page.

[†] Sailing Instructions for South Australia, by Captain Lee.

island appears not long ago to have consisted settlers removed to the mainland. tive slate. This limestone contains, in a coast. petrified state, the shells thrown out by the found.

and climbers which spring up at the roots beautiful animals in one month. ficult, if not impossible. said to be scarce.

A chain of large lagoons extends from the head of Seal Bay over to Vivonne Bay; and from the Table Hill, twelve have been num-

with clumps of trees. Cliffs of a whitish 35° 33′ S., 137° 41′ E., the chief feature of colour, rising abruptly from the sea, attain the island, is a large and excellent harbour, in some places a height of 300 feet. Many protected by a long sand-spit, which forms romantic and sandy bays indent the southern a perfect breakwater. The first colonists coast, a long line of bold cliffs and rocky for South Australia landed at Nepean bay, shores mark the north-western boundary, and formed a settlement called Kingscote, This extensive island is supposed by Mr on the slope of some hills overlooking the Menge to have been formerly connected harbour. The soil was found to be poor, with the mainland at Cape Jervis, and to being composed of sand left by the retiring have been separated by the ceaseless opera- sea, and a small portion of vegetable mould. tion of the sea, which opinion is confirmed After considerable expense had been inby the continuation of the mica slate forma- curred by the South Australian Company, tion all along its southern coast Kangaroo in erecting buildings and making roads, the of two islands, since joined by an accu- climate is neither so warm in summer nor mulation of sand and lime at Lagoon bay so cold in winter, as at Adelaide; but the Limestone is continually accumulating gales of wind are heavier, and there is less around the coasts, and rests upon the primi- rain, in general, than falls on the adjacent

The island derives its name from the sea, and stumps of the indigenous woods, number of kangaroos seen by its discoverer, with their roots also petrified. Nine miles Flinders, who with his party, in a single day, in the interior there are belts of iron and killed thirty-one animals, the least weighing limestone running through the island, be- 69 lbs., and the largest, 105 lbs.; they tween which good arable soil is occasionally were so unaccustomed to the sight of men, whom, says Flinders, they probably mistook The denseness of the vegetation prevents for seals, that in some cases they allowed an accurate knowledge of the interior; it themselves to be knocked on the head with is supposed that considerably more than sticks. The kangaroo and the seal seemed three-fourths of the surface is covered with to dwell amicably together among the brush-wood and dwarf gum trees; there is, bushes on the grassy flats near the shores however, large timber. Mr W. H. Leigh of the island. Mr. Leigh was informed by measured one tree growing in the interior, a deserter from a ship, who had been on and found it nineteen feet in girth, as high the island twenty years, that so numerous as he could reach, enormously lofty and were the kangaroos at the period of his arriumbrageous, and with others growing around val, that himself and another deserter, with it, as in an English wood; the minor plants the aid of two dogs, killed 800 of these of the forest timber, render exploration dif- wanton slaughter took place for the sake of In several in- their skins, which the deserters sold to the stances, where the land has been cleared, it crews of vessels calling at the island for salt has, however, yielded good returns, and and seals. It is no wonder that this singular quantities of the finest onions and other animal is now scarce on Kangaroo island. produce are now sent from Kingscote to The wallaby, opossum, bandicoot, and guana, Adelaide. The scarcity of good water, and abound, and venomous snakes, four to six the great difficulty of obtaining it, appears feet long, may be seen winding in all directo be general throughout the island. The tions through the matted scrub; the comvalleys running out to the north coast are mon brown Norway rat overruns the island, filled with high timber, but there are some as does also the wild cat. The lagoons contracts of excellent soil along the table-land tain numerous pelicans, and the poem of and in the drainages. Grass, however, is the "Pelican Island," is stated to have originated in its author reading Flinders' description of Pelican lagoon, near Nepean bay. Kangaroo island has been, for many years, the resort of runaway men from the bered, which, however, are mostly dry in whaling ships, and of various whalers and sealers, who lived a lawless life, and made Nepean Bay, on the north-east coast, in occasional forays to the mainland, where they kidnapped the native women, and con-scene of the shore whale fishery of South Robinson Crusoe. His native wife killed the last emu on the island, some years before the arrival of the South Australian Company's settlers, in 1836. No mconsiderable traffic was carried on by these lawless wanderers, in skins of seal, wallaby, and peltry of different kinds, and in supplying ships with fine salt, which is obtainable in unlimited quantities from the lagoons, where the crystals are deposited by the solar evaporation of the sea-water.

The good houses which were built at Kingscote are falling to decay, since the abandonment of the island by their proprietors, the South Australian Company; but as the harbour is unquestionably excellent, and the site of the town pretty, it may, probably, eventually form an agreeable summer watering-place for the citizens of Adelaide, who desire change of air and sea-

The harbour, however, of American river, and also a small bay five miles to the southcast of it, are considered by some persons to present superior advantages for a seaport town, there being an abundance of water at both these places, of which there is a deficiency at Nepean bay,* and as good, if not better soil.

To return to the coast line of the mainland, which from Cape Jervis trends in an easterly direction, forming the northern shore of Backstairs Passage, (in whose entrance he three rocky islands, called the Pages,) and is marked by a line of hills, diminishing gradually towards Encounter Bay, the principal

* Mr. Robert Fisher, Dr Slater, Mr Osborne, and three other gentlemen, landed from the barque Africaine, Captain Duff, November 1st, 1836, near Morel's boat-harbour, between Capes Borda and Forbin, to travel overland to Nepean bay, whither the vessel in which they were passengers was bound, with emigrants to establish the colony of South Australia. The party were furnished with about two days' provisions, and six bottles of rum They found the sun oppressively hot, the country hilly, and covered with dense prickly shrub, to penetrate which was very difficult; indeed they frequently had to chop their way through by means of a hatchet, which they fortunately had with them. The first three days of their travels they found fresh water plentiful, but after that time it was not obtainable. After nine days' perilous journeying and extreme hardships (for six days without water or food, except the flesh of half a dozen parroquets and the blood of a couple of sea gulls, shot during their ex-cursion), Mr. Fisher, and three of his companions, reached the South Australian Company's settlement, at Port Nepean; Dr. Slater and Mr. Osborne were

veved them to their island homes. One Australia. To this locality a degree of pain-European lived twenty-two years near Ne- ful interest is attached from the dreadful pean bay, somewhat after the manner of disasters of which it has been the scene. The shore abounds in rocks and reefs, and the surf is represented by old captains as being worse than that at the Madras roads. The rollers rise to the height of fifteen or eighteen feet in one unbroken line as far as the eye can see, and as south winds prevail on this part of the Australian coast, it is only during the summer season, and after several days of northerly winds, that the sea subsides, and the roar of breakers moderates for a time. Rosetta Head, a lofty bluff, stretching out to seaward nearly at a right angle with the coast, forms the western side of Encounter bay. From its summit the whalers watch for their prey. Under the lea of Rosetta head is a small harbour also called Rosetta, + in honour of Mrs Angas, which is separated by a rocky island named Granite Island, and a reef that is visible at low water, and connects Granite island with the mainland from Victor harbour. cording to Captain Sturt, neither of these harbours are considered secure, although protected from all but south-east winds, and he mentions, on the authority of an experienced seaman, (whose name is not given) that under the lee of Freeman's Nob, and a small island off it, anchorage altogether preferable is to be found, as being more sheltered and having better holding ground. The capabilities of these harbours are however at present of comparatively little importance, but the rapid increase of colonization will probably soon render them of more immediate interest, and lead to their fuller examination.

unavoidably left behind, and both must have perished, as a party of native women and islanders sent in search of them were out sixteen days, but returned without succeeding in the object of their mission

† It was in Rosetta harbour, during the early settlement of the colony, that the South Australian Company's ship, South Australian, was driven on shore and lost. The John Pirie, a strongly-built schooner, also belonging to the company, had wellnigh shared her fate This little vessel was lying
astern of the Australian, when she went ashore, with
the reef close astern of her. In this fearful position her anchors began to drag, and her destruction ap-peared inevitable, when her commander, Captain Martin, determined on attempting to take her over the reef, it being high-water at the time He accord-ingly cut his cable, set his sails, and ran his vessel on the rocks. Four times she struck, and was heaved as often over them, until at length she floated in the deeper water of Victor harbour, and found her safety under the lee of the very danger from which she had expected destruction.

bay the junction of the Murray with the point only, it is probable its sca-mouth will Southern Ocean takes place in 35 32 S lat, become navigable" 138° 56' E. long. The aperture made by the impetuous stream in the dreary line of and the Angas, flow into Lake Victoria, which sand hills through which it forces its way is communicates at its south-eastern extremity about a third of a mile in breadth, and when with another lake, named Lake Albert, of the river is flooded a strong current runs out about fifty miles in circumference, with a of it with such rapidity, that the tide setting depth varying from four to ten feet. The in at the same time, causes a short and bubbling sea. On its eastern side is a lake or lagoon called the Goolwa, (chiefly occupied by Hindmarsh island) which receives the Murray, a sandy coast, completely open to waters of Finniss river and Currency creek. Lake Victoria is connected with Encounter bay by means of the channel of the Goolwa. now called Port Pullen, in compliment to the officer who by strenuous and persevering effort, succeeded in taking a small cutter through that narrow passage, and navigating her across Lake Victoria into the Murray river, as high as the settlement of Moorundi Although the name of Port Pullen records a daring and successful enterprise, yet many melancholy associations are connected with Some years before, Sir John this spot. Jeffcott, the first judge of South Australia, and Captain Blenkinsopp, with two of their boat's crew, found a watery grave in attempting to pass from the Goolwa into Encounter bay, and the large sand hill which marks ocean beats with unceasing violence. the eastern shore, is named Barker's Knoll, in memory of the brave officer, who after having left his companions and succeeded in swimming across the mouth of the Murray, of the Milmendura natives.

Lake Victoria (originally called Alexanshallow, its medium depth is only four feet, vearly from the Murray. " No doubt," says Captain Sturt, "but that future generations will see that fine sheet of water con- by a low granite range constituting a water fined to a comparatively narrow bed, and shed, throwing the drainage to the north pursuing its course through a rich and ex- and south, respectively; from the shore a tensive plain. case," he adds " and that the strength of

At the eastern extremity of Encounter the Murray shall be brought to bear on one

Two small streams named the Bremer water in Lake Albert is in some parts very good, in others, slightly brackish, but quite fit for use. From the sea-mouth of the the ocean, stretches away to the south-east, forming the outer shore or sand-hills of the Coorong, a back-water of Lake Victoria and the Murray, which runs parallel with the sea for a distance of ninety miles, separated only by a ridge of sand-hills, some of which are from 300 to 400 feet in height, with a breadth varying from half-a-mile to a mile and-a-half Its waters are salt, its average breadth about two miles. The inner shores (which appear to have been originally the boundary of the ocean) are broken with numerous rocky promontories, and shallow sandy bays indent its margin, towards the sea, the hills of sand rise in stupendous masses, forming a long and dreary peninsula, against which the surf of the southern some places the sand is so white, as to resemble snow, and contrasts strongly with the shrubs growing on these hills, which are of deep green. The Coorong terminates there fell a victim to the superstitious fears in a series of salt lagoons, after passing successive swamps intersected by belts of grassy soil and low hills, scattered over with casuadrina), is estimated at from fifty to sixty miles rina and a variety of smaller shrubs, near in length, and from thirty to forty in its eastern extremity, a stream called Salt At seven miles from the entrance Creek, flows out of it, running through the of the Murray, its waters are brackish, at desert country to the eastward. The Cootwenty-one miles across, perfectly salt, the rong is the resort of myriads of waterfowl, force of the tide being there perceptible. which in some places are so numerous, as Although, when viewed from the point of to darken its surface; black swans, pelicans, Pomundi, which projects into it from the ducks, teal, and shags, breed in perfect south, it has the appearance of a clear and security amid its profound solitudes. Shellopen sea, yet it is, after all, exceedingly fish and mullet abound in its waters, and the monterry, or native apple, grows in every and it is rapidly filling up from the decay of direction over the bleak and desolate mounseaweed, and the deposits brought into it tains of sand that form a barrier from the fury of the ocean *

The termination of the Coorong is marked When that shall be the protruding mass of granite, about twenty

^{*} Australia Illustrated, by G. F Angas.

or twenty-five feet high, forms a bold point new, a very extensive sheet of water, divided in a long, straight line of coast, and was from the sea by a line of sand-hills. mistaken for a cape by M. Baudin, who projects but a few feet; there is, however, from this point, a sunken granite reef jutting rocks that break the water in Lacépède bay, an inlet immediately beyond, which, it is supposed, will be found to afford sheltered anchorage to small vessels, even in the winter season.

From Cape Bernouilli, or Jaffa, a remarkable projection to the south of Lacépède Bay, reefs extend for a considerable distance. ruthlessly massacred by the Milmendura natives.

From Cape Bernouilli a ledge of rocks extends for ten or twelve miles towards Guichen Bay, a valuable outlet for the province, and a much-needed port of refuge, affording good anchorage, safe during every wind. From its south point (Cape Dombey) a ridge of rocks extends, which serves as a breakwater for the outside swell. A township was laid out here, in 1846, called Robe Town; and another, named Grey Town, was formed at Rivoli bay, about the same time. The shores between these bays are bordered by lakes or lagoons; which, however, do not communicate with the sea. these-the nearest, that is, to Guichen Baynamed Lake Hawdon, cannot rightly be called a lake, being merely a flat swampy plain, which in the rainy season is covered with water. Lake Eliza and Lake George, both of considerable size, are separated from each other only by a narrow strip of land.

Rivoli Bay is a good haven, but, from its exposure to south-west winds, is not considered to afford proper shelter for squarerigged vessels. Penguin Island, so named from the vast number of penguins found there, lies off Cape Martin, the northern extremity of Rivoli bay; the southern, Cape Lannes, is, I believe, identical with the Cape Buffon of the French.

Immediately behind Cape Lannes, Lake

Destaing Bay hes to the south of Lake called it Cape Morad-de-Galles. This rock Bonney; from thence the coast trends in a south-easterly direction to Cape Northumberland, in 38° 4' S. lat., 140° 42' 33" E. long., into the sea, apparently connected with the when it turns to the east, presenting no feature worthy of notice between that point and its termination, a little to the westward

of the mouth of the Glenelg.

Mountains.—Although the province of South Australia contains several continuous ranges of high land, it has none of any great elevation, the loftiest not much exceeding 3,000 feet. The Mount Lofty range stretches Many disastrous shipwrecks have occurred from Cape Jervis, along the east shore of in its vicinity; among them, that of the Gulf St Vincent, to the northward for about Maria, whose unhappy passengers and crew forty miles, there attaining an elevation of -such of them, at least, as escaped the 2,334 feet. From this point a chain branches perils of the sea-met a yet more melan- off to the westward, but the main range choly death; for after toiling along the continues to run up towards the interior, dreary shores of the Coorong, under a burn- into which Captain Sturt considers that it ing sun, for nearly ninety miles, they were cannot extend far, or he must have seen something of it during his interior explora-Captain Frome, in the map accomtion panying the account of his expedition of 1842, clearly connects it with the ranges Godfrey Island, which has in the centre of traced by Evre to their termination in Mount Hopeless, within the limits encircled by Lake Torrens, and speaks of the direction of what he terms "the dividing ridge between the basin of the Murray and the interior or desert plain, as generally about north-east from the highest point north of Mount Bryan (the Black Rock Hills, in about 32° 45' S lat), gradually decreasing in elevation, and, if possible, increasing in barrenness." summits of these hills were found to be invariably rock, generally sandstone; the The first of lower slopes covered with dense brush, and the valleys with low scrub, with occasional small patches of thin wiry grass. At the highest points of elevation from Mount Bryan northward, igneous rocks, of basaltic character, exhibit rugged and fantastic outlines,-in about 31°S. lat. marked indications of volcanic action have been found, and several hollows resembling small craters of extinct volcanoes, near one of which a warm spring was discovered, temperature 76° Fahr., atmosphere 54°.

The principal summits of this range, viz., the Razor Back, Mount Bryan (to the south of which is the great Burra-Burra mine), and the Black Rock Hill, rise to the height of 2,992, 3,012, and 2,750 feet respectively.

The more western branch of the chain, Frome stretches southward towards Lake Bon- sometimes called Flinders' range, follows the eastern side of the head of Spencer's gulf; about twenty feet higher than Mount Lofty. able distance, its most northerly extremity being, according to Eyre, Mount Hopeless, a low haycock-like peak, in 29° 30′ S. lat., beyond which he describes the horizon as presenting one low uninterrupted level, the hopeless nature of the adjacent country being too clearly evidenced by the existence of numerous brine-springs.

Mount Serle, a very prominent emmence, is situated about ninety miles to the southwest of Mount Hopeless. Mr. Eyre considered that it could not be less than 3,000 feet in height, but, from an accident which had occurred to his barometer, was unable

to ascertain it with accuracy.

To the east of Mount Serle, and connected with the main range by low long spurs, is a ridge named Mount Deception, from the fallacious expectations raised by its height (which to all appearance could not be less than 3,000 feet), of finding permanent water in its vicinity. Its summit was found to be attainable only by winding along the steep and stony ridges leading round the deep gorges and ravines by which it is encircled.

The other principal peaks in Flinders' range are, Mount Arden, Mount Brown, and Mount Remarkable, so named by Captain Flinders. Mr Eyre, speaking of Flinders' range between Mount Arden and Crystal Brook, a distance of about eighty miles, says that the character of the range varies but High, rocky, and barren, it rises abruptly from the level country at its base, the slopes to the westward being steep and metal when struck with a hammer, The hills have no other vegetation than prickly ascent, from the steepness of the declivity, dangerous, if not impossible.

To return to the Mount Lofty range, the high land between it and the Murray is ably described by Colonel Gawler, in his Geographical Notes, as the Mount Barker, or Great Ironstone, and the Mount Wakefield ranges; and although myself disposed to consider the whole, including that just described, as forming one great mountain mass, and not properly divisible into distinct formations, I yet give the following abstract of Colonel Gawler's statement, as affording nearly 2,000. valuable information on the subject.

thence it runs nearly parallel with the inner This elevation, however, is only continued shore of Lake Torrens for a very consider- for about a mile in length, by from fifty to one hundred miles in width. Beyond these limits the ground on all sides drops suddenly for 800 feet, Mount Barker rising like an isolated hill from the great tableland beneath it. This table-land is about 1,600 feet above the level of the sea. It runs in a broad belt parallel to the Mount Lofty range; its surface, presenting beautiful undulations of lightly-wooded low hills and gentle valleys. At from ten to fifteen miles south-west of Mount Barker, it falls rather suddenly to about 1,200 feet, and becomes covered with a stringy bark forest From ten to twenty further, in the same direction, sharp, precipitous ridges, some of them attaining an elevation of from 1,800 to 2,000 feet, cross it in different directions. Between these, still upon high table-land, are formed the rich valleys of the Myponga, the Upper Finniss, and other streams, flowing severally to the westward, eastward, and southward. Immediately afterwards, entering along the range, still to the south-west, huge branches strike off to the sea, and from heights of from 1,200 to 1,500 feet, fall precipitously into it, along the line of coast which extends from Mount Terrible, the southern boundary of the Aldıngha Plains, to Yankalılla. Other large branches shoot off from Myponga to the eastward of south, and fall with a more gentle descent towards the great bend of the Lower Murray, in the neighbourhood of Currency creek.

Mount Wakefield can scarcely be considered as distinct from the Mount Barker precipitous, very hard, and ringing like range, it is rather a mighty disruption from its south-western extremity. Between the two, for twenty-five miles from Yankalılla, grass, and are in many instances so coated in Gulf St. Vincent, to the mouth of the over with loose stones as to render their Inman, in Encounter bay, runs a very lovely valley varying from about six to two miles in width, well watered, and rich in soil adapted for agriculture, and in herbage for pasturage. In this valley are situated Division Hills, which separate the waters flowing into Gulf St. Vincent from those falling into Lake Victoria and the Lower Their summits are clothed with Murray. pastures, and their height is not above 800 feet above the sea, while that of the precipitous mountains which bound the valleys to the north and south, is from 1,200 to

The summit of the Mount Lofty range is The summit of Mount Barker itself, is narrow; it seldom exceeds a quarter of a mile in width; that of the Mount Barker thirty miles, with many peaks at much range, on the contrary, maintains a breadth of from six to ten miles, and though hills and ridges frequently intersect it, their elevation above the general summit is small, as compared with its height above the level of the sea.

Between the summits and the great valleys at the base, both in the Mount Lofty and Mount Barker ranges, runs a belt frequently from three to four miles in width, of very thickset, narrow, and tortuous spurs These form, at first sight, the greatest obstacles in the way of practicable roads, but, on a close research, good passes over them may almost everywhere be found The small valleys between these spurs are The often very rich and well watered. lower slopes of all these mountain ranges are almost everywhere composed of slate, The summit of Mount Lofty is capped with a highly ferruginous sandstone, and large portions of the Mount Barker range with a conglomerate of ironstone and angular pieces of quartz, upon both formations Colonel Gawler declares himself to have invariably found stringy bark, forest, or brush.*

The heights termed the Barossa Range. about thirty miles to the north-east of Adelaide, form an undulating hilly country, lightly wooded, comprising several rich and picturesque valleys The Keizerstuhl, the highest point in the range, has a beautiful outline, and the stream called the Rhine flows northward, through the pretty town of Bethany, where the German colonists have located, and given the names of several places in their fatherland to the more distinguishing features in the country around The Belvedere, Heraman, Hawdon, and other surrounding minor ranges, do not present any very prominent features, but they offer is high and rocky, rising abruptly out of the much pleasing scenery.

A considerable portion of the peninsula which forms the south-western shore of distant. Its formation is entirely conglom-Spencer's gulf, is occupied by a mountainous erate, of rather a coarse description. Fresh table-land, about 1,300 feet above the level water and good grass abound in its vicinity ‡ of the sea, whose surface is traversed by many short and narrow mountain ridges,

* Colonel Gawler's Geographical Notes. + Ibid.

greater distances; the north-east and east, Middleback Mountain, which is an offset from the table-land, the upper part of Spencer's gulf, with the mountains beyond it, and the coast further than Point Riley; to the. south-east, Point Pearce and Wardang island, and to the south-west, the immense tracts of low undulating country, as far as Mount Hill (Flinders' High Bluff), an isolated peak about 1,500 feet high, forty-six miles north-north east from Port Lincoln.+

Marble Range, about thirty miles northwest of Boston bay, rises abruptly, and when its steep sides of quartz receive the evening sun, it appears as if inlaid with diamonds. In the distance, to the north, another mountain range is visible, consisting of abrupt, lofty cones, the most remarkable of which, Albert Peak, is visible for a the surface above the slate being always considerable distance Mounts Dutton and Greenly are also seen to the west, beyond the Marble range, and the high sand-hills of Coffin's bay shut out the scene to the south

> To the north of Evria Peninsula, between Mount Arden and Streaky bay, a singularly rugged and barren range, of about 2,000 feet in height, extends for a considerable distance. The succession of detached ridges forming Gawler Range, consists entirely of porphyritic granite, the front slopes exceedingly steep, and covered by small loose stones, and without either timber or shrubs From the whole range, not a stream or water-course was found to emanate, the only water obtainable in its vicinity being afforded by the deposits left by very recent rains. The adjacent country is equally sterile and arid, the soil being in many places saline, with several salt lakes, but affording no indications of fresh water or springs.

> Baxter Range, to the east of Gawler range, plains. It is distinctly visible from Mount Arden, from which it is about fifty miles

The country to the east and south of Lake Victoria is not marked by a coast from 300 to 700 feet in elevation above it. range of mountains, running parallel to the From Mount Olinthus, situated thirteen miles Pacific like the "Blue Mountains" of New from Franklin harbour, which attains a South Wales; there are, indeed, only a few height of 2,000 feet, the view is magnificent, eminences, that appear to be continuations embracing, to the north-west, the whole of the parallel ridges which mark the Auscourse of the table-land for twenty-five or tralian formations, and, so far as we know

1 Eyre's Expeditions into Australia 1841.

generally a direction from south to north.

Mount Benson, a round-topped eminence, with an elevation of 700 feet above the sea, is the highest of a range of limestone hills visible from the sand hills at Lacépède bay. The view from the summit is that of "a sea of woods," with the blue plains melting away into the invisible distance.

Mounts Gambier and Schanck, eight miles apart, at a short distance from the coast, near Glenelg river, are volcanic cones Mount Schanck, the nearest to the sea, rises at an angle of about 45° for 600 feet, from a comparatively level country, and attains an altitude of nearly 900 feet above The interior of the mountain is one vast hollow basin, upwards of two miles in circumference, and so deep that the trees growing in the rich soil of the lower depths of the crater, appear like minute shrubs dotted over its surface. The outer side of the cone is clothed with grass, scattered over with "she oak" trees. The rim or outer edge of the crater is stated by Mr Angas to be not more than a couple of yards in Mr. Burr says there are three distinct craters, the principal one is 500 yards in diameter; another to the east about onethird as high as the principal, and 200 yards across; and a third crater to the south is rather more elevated than the east, and 250 vards wide The small craters are on the slope of the main crater, nearly circular, devoid of water, and covered with rich vegetation on the inner and outer slopes view from the rim of the main crater is very extensive, commanding the windings of the Glenelg river and the curves of Bridgewater and Discovery bays in Victoria province At the base of the mountain to the north there are circular limestone basins, and the country around presents heaps of black cellular lava. To the south-east and southwest there is a large mass of cellular wacke, forming a wall six to eight feet in height, and appearing as if it had at one time formed a sea beach. Governor Grey and his party, when riding round the foot of the mountain, noticed particularly to the south-east a hollow sound, as if there were a vault beneath them.

Mount Gambier is rather higher than Mount Schanck, of an oval form, 600 yards long, by 120 yards broad, the largest diameter in a direction nearly east-south-east. each containing a lake of water. Mr. Burr as is shown by the residue of sticks, scum,

throughout the whole island-continent have states, that about one-third of the east portion of the crater forms a lake with high perpendicular cliffs, except to the west. where it is bounded by a gently sloping hill running nearly north and south across the crater, and dividing it into nearly two equal portions. The western portion of the crater has several lagoons, which contain water. The depth of the central lake of the crater is very great, the water good, and frequented by numerous wild ducks.

Mr. Angas expresses his "rapturous admiration of the glorious and enchanting scene," which the sudden view of the largest crater presented, when he reached the summit of the mountain; a vast hollow basin was, as it were, shut out from the world by the walls of lava that surrounded it, and covered with emerald verdure, burnished to a bright metallic green by the golden tints of evening; small hills, like miniature craters, interspersed among plains and valleys, carpeted with grass of velvet smoothness, scattered with a few blackwood or mimosa trees, form one portion of this enchanting dell At its western extremity, terrace above terrace rises along the sides of the mountain, with occasional caverns of red lava. The deep, still lake, with its black-looking waters, is surrounded by lofty cliffs of pure white coral. The country between the two mountains is very rich, and the scenery beautiful

Governor Grey discovered at the foot of Mount Schanck several caves containing numerous organic remains, with bones of the emu, gigantic species of kangaroo, and a tooth which must have belonged to a marsupial animal of gigantic size.

A low ridge to the north-west connects Mount Gambier with the Mount Burr range, which has an elevation of about 1,600 feet, and is generally steep to the south-southwest and west; but on the opposite side the ascent is very gradual. The country around appears to be of the most promising description for the settler.

RIVERS.—There are but few streams within the limits of South Australia which deserve the name of rivers, either from the length of their course or the body of water they contain, by far the larger portion being for the greater part of the year merely chains of ponds. Their channels however are generally of considerable depth; and though fre-Mr. Angas says, the foot of the mountain quently almost dry in the hot season, a exhibits the walls of three distinct craters, mighty flood rushes along during winter; and grass, left in the branches of the gum cessive, or rising above a certain height. streams have almost or quite ceased running. causes, appear to be supplied by springs and under-currents. Even in places where no sunk, as good water is almost invariably nous clay and sand. sixty or eighty feet. The absence of surfacewater is however naturally looked upon as a serious defect, and at Port Adelaide was a well has lately been dug within 100 yards of high-water mark, where, at a depth of only a few feet, excellent water has been obtained in sufficient quantity for the uses of the whole population, and the shipping which frequent the port *

The one striking exception to the usual its proper place. insignificant character of the South Austrahan rivers is formed by the noble Murray, the upper portion of whose course, under the denomination of the Hume, we have already traced to its junction of the Murrumbidgee, country, where, excepting on its immediate of slender trees, shrubs, and bushes tamed. the left bank of the Murray) a succession of twenty miles in breadth. waters they receive by means of their respective channels, the Rufus and the Hawker.

* Bennett's South Australia.

trees that line their course, for many feet Between the lakes above mentioned, and above the supposed ordinary height of the especially in the vicinity of a little sandy Nevertheless the province is by no peak named Mount Misery, the country is means so deficient in its supply of water as described in very unfavourable terms, the is frequently supposed, for even after its river itself being flanked by high level plains on both sides, while cliffs of 100 or 120 feet abundance remains in the pools, many of in height, composed of clay and sand, rise which from their temperature and other above the stream, their faces presenting the appearance of fretwork, so deeply and delicately have they been grooved out by rains. surface-water can be found, wells may be The soil of this upper table-land is a ferrugi-The vegetation is found at depths varying from eighteen to chiefly salsolaceous, with scattered tufts of

In 34° 9′ 56" S. lat., an extraordinary change takes place in the bed of the river; doubtless the chief reason for which the for at this point commences the great fossil town was built away from the harbour; but formation, through which the Murray flows during the remainder of its course.

> The following interesting particulars respecting the river and its singular channel. are given on the authority of Governor Gawler and Captain Sturt; the geological formation of the latter will be described in

In 34° S. lat., the river makes the decided bend to the southward, commonly termed the Great Bend, angle, or elbow of the Murray, and from thence continues in a southerly direction to its entrance in Lake river (see pages 585 and 586). From thence Victoria, its banks, meanwhile, being chato the confluence of the Darling the Murray racterised by a broad line of scrub called passes through a barren and unpromising the Murray belt, composed of a thick brush banks, neither water nor food can be ob- the surface is sandy, the pine predominates; Boundless plains of sandy soil, when otherwise, eucalypti, exocarpi, acacia, covered with salsolacæ, extend to the north and a large variety of others, many of them and south, alternating with brush and very beautiful. On the western side of the forest land. A little below the Darling (on bank this brush is generally from fifteen to On the same lagoons occur, backing flats of considerable bank a stripe of open ground usually inextent, clothed with nutratious herbage, but tervenes between the brush and the valley of the plains to the northward preserve the same the river, covered with grass and salsolacæ. sandy and barren character for many miles. North of the Great Bend, the brush almost On the right bank of the Murray is the wholly disappears, and the open ground junction of the ana-branch or ancient chan-spreads out into enormous plains, from sixtynel of the Darling, and on the same bank, five to eighty miles in length from north to more to the eastward, are two lakes (Victoria south, and to the eastward extending to the and Bonney), situated a few miles from the limits of vision. If water could be procured, left bank of the Murray, t whose surplus these plans, and the mountains which bound them, would be good sheep pastures.

The most remarkable feature of the sur-By this distribution of its waters the floods face of the great fossil formation, is its want of the Murray are prevented from being ex- of water-courses and water. Along the im-

At page 384 mention was made, on the authority of Captain Sturt, of a supposed tributary of the Mur-

ray, named the Lindesay, which has subsequently proved to be only an ana-branch of the Murray itself.

shade of yellow to a deep ochre.

The valley itself, in its whole course, is ing through it, is from 100 to 250 yards with some vegetable alluvium. depth that has been observed between the ground with the box-tree. Great Bend and Pomunda (the western point rent is about a mile an hour, immediately above the Bend, from a mile to a mile andvalley, maintain throughout a rough paralever preserves an equal course between them. It sweeps continually in magnificent reaches, from side to side, forming perpendicular cliffs wherever it strikes the hills, half-a-mile to four or five miles in length.

It is evident, that at a very distant period, the whole breadth of the valley was covered After this, by degrees, the curby water

mediate banks of the Murray, water has strong current and the chiff. Continuing worked out deep gullies, but these are very onward, a back-water was formed between short. Generally, the rain appears to lodge the detritus and the chff, and the bank has on its surface in very numerous shallow been carried on in a long narrow stripe patches, and to be carried off by evaporation. between the strong current on the one The valley of the Murray, in its whole hand, and the back-water on the other, until length,—i. e., for about 200 miles—in South the river, striking against the opposite chiff, Australia, is a hollow cut through this great and returning again, after a long sweep, to fossil formation, to nearly the depth of the the side first alluded to, formed a great level of the sea, so that the hills and cliffs semicircular flat, with a stripe of detritus as of either bank rise sometimes close to the an outer embankment between it and the margin of the river, sometimes at distances strong current, and a large back-water lake of one or two miles from it, to an elevation in the centre of the flat, communicating of about 300 feet. The scenery is rendered with the river by a narrow channel at its peculiarly attractive by the bold outline of lower extremity. These back-water lakes the chiffs, whose colour varies from a light have been gradually filled by alluvial deposition; most of them are now above the level of the river, and are covered with a from three-quarters of a mile to two miles light but excellent soil. The soil of the dein width—the more general width being tritus banks is of course inferior; it is comabout a mile and-a-quarter. The river flow- posed of the lime and sand of the cliffs, in width, the more general breadth being the flats are fully formed, the margins of between 150 and 200. Immediately above the river and back-water lakes are mostly its entrance into Lake Victoria, it is 170 lined with very fine flooded gum-trees, and yards wide, fresh, and very deep. The least a considerable part of the remaining solid

The order of the formation of these flats marking the mouth of the river), was twelve has been most regularly successive. Those feet; but such comparative shallows are very at and above the Great Bend are perfectly rare. The river varies, during this portion formed; their detritus banks are nearly of its course, to depths of forty feet, retaining twenty feet above the level of the stream, the latter for a long distance, before joining and clothed with magnificent gum-trees of The deep water in general holds all ages, while reeds have nearly disappeared very close to the banks. The flow of the cur- from the soil. Proceeding downwards, the detritus banks very gradually diminish in height, reeds become numerous, and gumthree-quarters, for two-thirds of the distance, trees thinly scattered; until at length, in the towards the mouth; and for the remaining lower part of the stream, trees disappear, third, about half-a-mile. The long hnes of and the flats become vast expanses of reeds; hills and cliffs which bound the Murray the last of them, that within four miles of Pomunda, retaining its long stripe of delelism to each other, but the river scarcely tritus bank, and its back-water lake, in such extensive dimensions, that navigators with the stream would mistake the back-water lake for the river.

Captain Sturt, describing the Lower Murand encircling never-ceasing flats of from ray and the Upper Murray, or Hume, as one river, says, "the heads of its imme-The formation of these flats is remarkable. diate tributaries extend from the thirty-sixth to the thirty-second parallel of latitude, and over two degrees of longitude; that is to say, from the 146th to the 148th merirent striking against a cliff, and flying dian; but, independently of these, it reoff towards the opposite side of the val- ceives the whole westerly drainage of the ley, left between it and the cliff a bank interior from the Darling downwards. Takof detritus. This bank, for some distance, ing its windings into account, the length has occupied the whole space between the of the Murray cannot be less than from

1,300 to 1,500 miles. Its rise and fall are Moorundi), that weighed 72 lbs. both gradual. It receives the first addi- numbers of a smaller but better kind, about tion to its waters from the eastward, in the twelve inches in length, resembling the month of July, and rises at the rate of an English perch, have recently been taken inch a day until December, in which month with nets. While the waters of the Murray it attains a height of about seventeen feet are thus occupied, its banks are enlivened by above its lowest or winter level. As it rises, it fills in succession all its lateral creeks and lagoons, and it ultimately lays many of its flats under water. The natives look to this the fine gum-trees, which form one of the most periodical overflow of their river with as much anxiety as did ever or do now the Egyptians to the overflowing of the Nile. of a beneficent Creator; for as the sacred first navigators of the Murray would not have heard a human voice along its banks."

As a line of communication between distant colonies, the Murray is of great and indisputable importance. Captain Sturt considers that, as a commercial river, it will not be of practical utility, because it runs for more than five degrees of latitude through a desert, is tortuous in its course, in many places much encumbered with timber, and its depth entirely depends upon Other authorities, however, the seasons. entertain a different opinion on the subject, and deem the Murray navigable at certain seasons for a considerable portion of its course; and, consequently, likely to facili- occasion to describe, in relating the exploratate internal transit very materially, notwithstanding the evident non-navigability of its sea-mouth, and the impossibility of a vessel entering it from the ocean, except in unusually calm weather, from the united force of the current and the immense sweep of rollers, which rise and break for the distance of a couple of miles before the entrance to the mouth of the river is attained.

Before leaving the Murray, we must not colonists, a beautiful and well-flavoured fish,

numerous flights of the crested pigeon, the cockatoo, and a vast variety of parrots, whose brilliant plumage contrasts charmingly with pleasing characteristics of this noble stream.

The other streams at present known in South Australia are, the Inman, Hindmarsh, To both they are the bountiful dispensation Currency Creek, Finniss, Angas, and Bremer, falling into Encounter Bay and Lake Alexstream rewards the husbandman with a andrina; the Yankalilla, Curricalinga, Mydouble harvest, so does the Murray re- ponga, Onkaparinga, Sturt, Torrens, Upper plenish the exhausted reservoirs of the poor and Lower Para, Gawler, Hutt, Light, Wakechildren of the desert with numberless fish, field, and Rhine, falling into or running and resuscreates myriads of crayfish that had towards Gulf St Vincent, and the Broughton, long lain dormant underground; without Dutton, and several small streams falling which supply of food, and the flocks of wild into or flowing toward Spencer's gulf. Not fowl that at the same time cover the creeks any of these are of sufficient importance to and lagoons, it is more than probable the need any detailed notice in this place, especially as many of them will be mentioned in the description of the districts to which they respectively belong.

> LAKES.—The known lakes of this province, like its rivers, form but a meagre catalogue; yet, among them are comprised two names already familiar to my readers, to which considerable interest attaches, i e. Lake Victoria or Alexandrina, the large shallow lagoon recently described as the receptacle of the Murray river, and Lake Torrens, that huge and strangely-shaped basin which strikes the eve as so remarkable a feature in the map of the island-continent of Australia.

Lake Torrens, also, we have before had tions of Mr. Eyre (p 385). It appears formerly to have communicated with Spencer's gulf, and, indeed, is still connected with the head of the gulf by a channel now filled up, but soft and boggy, in places containing salt water mixed with the mud. The lake extends in the form of a horseshoe over a circuit of at least 400 miles, encircling the numerous ridges of moderate elevation, which form the northern extremity omit noticing the "Murray cod" of the of Flinders' range, and receiving the whole drainage from them. The apparent breadth caught at certain seasons in considerable of the lake has been before stated, on the quantity; the general size varying from authority of Mr. Eyre, who traced its shores 15 lbs. to 25 lbs, but frequently much on the western side of Flinders' range for larger. Captain Sturt mentions having seen 200 miles, to be from twenty to thirty one, caught by Mr. Scott (the successor of miles; while Sturt, who visited its north-Mr. Eyre at the Protectorate station at eastern portion in 1845, mentions it as only from ten to twelve miles across. The decep- counties (eight in number) were established tive appearances caused by mirage and in 1845. That which first claims our notice, refraction, on its shores, are most extraordia as containing the capital of the province, nary, and render the evidence of vision very named,insufficient. Eyre made various attempts to cross the lake, and on one occasion, penetrated into the basin for about six miles, Lut was always compelled to retreat, by the increasing softness of the mud; once, only, did he succeed in tasting its waters, in a small arm near its most north-westerly portion, same greenish hue. The south-eastern portain Frome to be quite dry, and "more out on its left bank. properly a desert, than a lake "*

Lake Victoria, Lake Bonney, and other lakes and lagoons mentioned in tracing the coast-line of this province, we need not again

refer

Of the two pretty inland lakes connected with the Murray, named Victoria and Bonney, the former is about twenty-four miles in circumference, very shallow, and at times nearly dry; the tortuous channel called the Rufus, by which it receives the surplus waters of the Murray, is about eight miles long Lake Bonney is ten miles in circumference and very shallow, and is supplied solely from the Murray; but its channel, —the Hawker, which, taking its windings, is about six miles in length - being too small to discharge the water equally with the fall of the river, has a current in it, at certain times, which gives it the appearance of a tributary, rather than merely a recipient.

TOPOGRAPHY—Settled Districts —The chief portion of the province at present divided into counties, is situated between St. Vincent's gulf and the Murray, on the east and west, and between Broughton river and Encounter bay, on the north and south. These

* A striking contrariety exists between the accounts given of different portions of the lake by Mr Eyre and Captain Frome, the former describing it from close examination on the west side of Flinders' range, as girded throughout by a steep ridge, like a sea shore from which you descend into a basin, certainly not above the level of the sea, possibly even below it, the whole bed being composed of mud and water; while Captain Frome, who visited its south-eastern extremity, declares it to be "rather a desert than a lake, consisting of loose drifting sand and low sandy ridges, very scantily clothed with stunted scrub on their summits" Mr Eyre considers that Captain Frome had not reached the basin of Lake Torrens-first, because of the manner in which the drainage is thrown off from the east side of Flinders' range, and the direc-

Adelaide County, is bounded + on the east, by Gulf St. Vincent; on the south, by the county of Hindmarsh, as far east as Mount Barker; thence by a line continuing along the main range to the division of the waters between the Gawler and the Rhine, and following the creek Moorooroo (Jacob's and here they were perfectly clear, about creek), to its junction with the Gawler, that two feet deep, as salt as the sea, and of the river then forming the northern boundary to the sea-shore, not including, however, tion of the bed of the lake is stated by Cap- the portion of the Gawler special survey laid

The City of Adelaide is situated about To Lake Albert, which is connected with midway between the northern and southern extremities of Adelaide county, in 34° 57' S lat, 138° 38' E. long. Although now an episcopal see, as well as a corporate city, possessed of the rights and responsibilities attaching to ecclesiastical and corporate power, it is not yet fifteen years old, for the first intending settlers reached the shores of Gulf St. Vincent the 27th July, 1836, not knowing where they were to locate themselves, for the territory on which they landed had never before been trodden by the white man; but was the abode of the kangaroo and emu, and roamed over by tribes of wandering savages in quest of food. The measures which were taken for selecting the site of the capital of the colony, have been previously stated, but the misunderstanding between Colonel Light and the governor, respecting the position chosen by the former, and the incompetency of several of the assistant-surveyors sent out, caused considerable delay in preparing the lands for selection; much disappointment was experienced by the settlers who had paid in money in England, and expected to be put in immediate possession of the land Until this was done, some on their arrival. tion which the watercourses take to the north-east or north, secondly, because an apparent connection is traceable in the course of the lake from the heights in Flinders' range, nearly all the way round it; thirdly. because the loose sands and low sandy ridges, crowned with scrub, mentioned by Captain Frome, are very similar to those met with near Lake Torrens on the west side, before arriving at its basin

+ The boundaries of this and of the other counties of South Australia, are chiefly cited from the proclamation of the local government, by which they were fixed, they are, perhaps, somewhat too minutely stated for the general reader, but the accurate topographical information thus incidentally conveyed, will,

I think, make amends for that defect.

of the new comers remained at Nepean bay. in Kangaroo island; but the greater part pitched their tents on a plain, subsequently called Glenelg, close to the beach, at Holdfast bay, there to await the completion of the survey. When the site of the capital was fixed, most of the emigrants removed thither: but, as the applotments were not yet laid out, and the question of priority of choice was to be settled by a lottery, the adventurers were under the necessity of forming another temporary encampment, and the banks of the Torrens river were soon lined with huts erected from the materials most readily procurable; some being constructed of mud and interlaced branches, termed "wattle and daub;" others of turf, of brushwood, or of reeds, and for a roof, thatch, or a piece of canvass, was used A few had tents, or wooden houses, made in England, fire-places were, fortunately, not new city, named after the excellent Queen essential, but several huts had an opening Adelaide, was on a sloping ground, with at one end, enclosed on three sides with grassy flats and umbrageous trees, on the stone slabs, and a pork-barrel deprived of its north and south banks of the Torrens river, ends, for a chimney; outside the huts a about six miles from Port Adelaide, on the blazing fire was kept, with a huge pot swung east side of Gulf St. Vincent, and about six over it, gipsey fashion. structures afford a good idea of the aptness range before described. The portion of with which Englishmen and Englishwomen the city on the south side of the river comaccommodate themselves to the exigencies prises 700 acres, and is nearly level, that of a novel and trying position, and of the on the north side contains 342 acres, and speed with which they establish something is elevated, so as to afford a fine view of most unpromising circumstances. a strong sense of mingled justice and expediency urged them to establish an autho rity and to obey its dictates. Indeed, the their city, was soon visible. early settlers appear to have manifested a great deal of sound common sense in their proceedings; to use a colonial expression each one soon began "to shake down" into his proper position, and orderly communities were established, first at Nepean bay and afterwards, at Holdfast bay, even before the arrival of the governor.

In January, (27) 1837, Mr. Edward Stephens, then dwelling at Glenelg Plains addressed a circular "to the purchasers o the first sections of land in South Aus tralia," urging their assembling to examinthe proposed site of the chief town on the Torrens, and to remove all doubt or question as to the superiority of the place. On 2nd

o the governor, signed by eight gentlemen. requesting that a public meeting might be called on the subject. This was accordingly done on the 10th February, when a motion was carried by 218 land-order votes to 137. n favour of the position on the Torrens hosen by Colonel Light, and it was declared hat he had " most ably and judiciously disharged the responsible duty assigned him by the South Australian Commissioners."

In March, 1837, the survey of the town ands was completed; the selections were made by those who brought land orders rom England, and the remainder were sold to the highest bidder, the prices varying from £2 to £20 per acre; the average price was £5 per acre. Within the ensuing three ears, some of the parties who had purchased at these prices, sold their lots at £200 to £2,000 per acre The site chosen for the These primitive miles from Mount Lofty, the beautiful hilly even of comfort around them, under the the surrounding country, embracing to the Five eastward the darkly wooded valley of the months elapsed between the arrival of the river, and the peaks and elevations of the first emigrants and that of Governor Hind- Mount Lofty range, with the lighter wooded marsh; meanwhile, they would have been country at its base; to the eastward comtotally without law or government, had not manding the whole extent of the Adelaide The activity of the colonists, plains. when they became certain of the site of In June. 1837, it was noticed in the South Australian Gazette, that the good citizens were fast emerging from the semi-savage state of life which was at first inevitable; "a cottage planted and fenced round with a substantial English iron fence, a roof adorned with a cupola, surmounted with a weathervane, and a door, too, graced with a handsome knocker," belonging to Mr Osmond Gilles, the colonial treasurer, triumphantly proved the progress of civilization. During December, 1837, Mr. Morphett remarked that the small park land was being cleared of temporary erections, and that dwellings were being constructed of a superior order, all in the cottage style. They were February, 1837, an address was presented built some feet from the front lines of the

out-houses and offices, when more substan- recovered, and made considerable progress; tial edifices were erected. A Government and it now ranks highly among the colo-House was constructed by the seamen of nial towns in her Majesty's dominions, and H.M.S. Buffalo, and consisted of mud put eventually promises to become a noble city. between laths, supported by wooden up. The extensive scale on which it is laid out, rights, and covered with thatch. The sailors and the ample provision thus made for the

fire-place or chimney.

in March, 1839, says, that it still retained a straggling appearance, but the fault, if somewhat the appearance of a collection of it is one, is on the right side; and the booths, such as may be seen at a country plentiful circulation of fresh air thus sebeginning to take the place of straw and of the inhabitants. mud, and shingles and slates had partly supplanted canvass and reeds. The old hut southern portion of the city (which, it will gave way to the neat cottage or handsome be remembered, is divided by the Torrens two-story house The first tenement erected into two portions, distinguished as North in Adelaide, even when a few stakes or "pegs" were all that distinguished it from the surrounding forest, was a printing-office. from whence issued a newspaper, which contained the official acts and orders of the government, and the latest intelligence respecting the geography and capabilities of built are of a substantial and ornamental the new land. A wooden church, sent from England in frame, with sittings for 350 persons, was erected near Holdfast bay, at an early date, and on 26th January, 1838, the foundation stone of Trinity Church was laid, at Adelaide, by the governor, in the presence of a numerous assemblage of subscribers to its erection. On a leaden plate, was inscribed the names of the trustees and of the incumbent, with the following sentence from Nehemiah ii. 20:-" The Lord of heaven he will prosper us, therefore we his servants will arise and build." An extensive store, built of limestone, at a cost of £2,000, was erected by Messrs. Fisher, in the centre of the town; and in a remarkably short space of time Adelaide had assumed many of the characteristics of an established town. There were, says Mr. Morphett, "neatly and in some cases elegantly spread dinner tables, well-cooked dishes, champagne, hock, claret, and maraschino, the presence of some well-bred and well-dressed women, and the soothing strains of a piano." The illusion of sitting at the hospitable board of some luxurious London citizen was only dispelled by the visitor, on cow, pig, or some such indication of colonial prosperity.

streets, in order that they might serve for pression before mentioned; but it has since omitted, in "rigging the house," to place a accommodation of a much larger population than it possesses at present, or is likely to Mr. J. F. Bennett, who reached Adelaide possess even for many years, gives it rather Brick and stone were then, however, cured must be very conducive to the health

> Captain Sturt, writing, in 1849, of the and South Adelaide), says it is twice the size of the northern, is more extensively built upon, is the established commercial division of the city, and contains the Government House and all the public buildings and offices. The shops and stores now character. The Government House stands in a well-kept enclosure of nearly ten acres, and has the appearance of an English country mansion. It is capable of enlargement. The public offices, built in a parallellogram, with an open space in the centre, are creditable to the colony, and the gaol, on which £36,000 have been improperly expended, is a large and substantial structure.

There are several Christian temples Trinity Church, built of stone, stands on the north terrace, and forms a prominent object, St. John's, built of brick, is on the east terrace, from whence there is a commanding view of the Mount Lofty range Christ Church is in North Adelaide. The Roman Catholic church, with its excellent public schools, stands in a fine situation on the west terrace; and there is a Roman Catholic cathedral, I believe, now building. There are several other churches and chapels, appropriated for the worship of the different Christian denominations Bank of South Australia is a prominent feature on the north terrace; and there are several other good buildings in various parts of the city. A theatre, capable of quitting the hall-door, tumbling against a holding 1,200 persons, which was built a few years ago, and proved an unprofitable speculation, is now rented by government at Adelaide received a severe check, in £200 a year, and used for the supreme court, 1841-2-3, at the period of general de-resident magistrates, sheriffs' offices, &c.

The streets have respectively a width of delicious fruits, beautiful flowers, and choice much required; for, with the exception of tural implements, samples of corn, wax, fares are unpaved, and large masses of commodities. rubbish are allowed to accumulate. Unless cautions that, in chimates like South Aus- rapidly built on and improved. tralia, plague finds not only a temporary but a permanent abiding place.

Hindley-street, about a mile in length, has many excellent warehouses and shops, with elegantly designed fronts and plateglass windows. It is the principal place for business, and presents an animated ap-

pearance.

A large cemetery, sufficient for the requirements of Adelaide for many years to its western boundary.

Adelaide is abundantly supplied with water from the Torrens, and by means of wells sunk sixty to eighty feet. There are numerous springs in the hills, five miles distant, branches, the appearance of a river. and at sufficient elevation to enable every

house to be supplied by pipes.

the two divisions of the city, which is surrounded by a public demesne, termed the "Park lands," for the breadth of half-a-mile. The advantage of these reserves cannot be doubted, although at present they increase must do so until Adelaide attains the importance anticipated for it by Colonel Light, to whose respected memory a monument, consisting of a pentagonal Gothic cross, forty-five feet in height, has been erected in the centre of Light-square, at Adelaide.

On both sides of the river between North and South Adelaide there are reserved allotments, to the extent of 200 acres, for the formation of pleasure-grounds and public formerly subjected.

gardens.

enhance the beauty of the city park, the to Port Adelaide the appearance of a small this occasion, not only many varieties of a good macadamized road between the port

66, 99, and 132 feet, intersect each other vegetables are exhibited, but also articles of at right angles, and are sufficiently elevated export and of domestic economy, raised and above the bed of the Torrens to facilitate a prepared by the industry and skill of the perfect system of drainage, which is very colonists, together with models for agricul-Hindley and Rundle streets, the thorough- honey, leather, starch, and other useful

Beyond the Park lands, which together attention be paid to the drainage of Ade- with the city contain 400 acres, the "prelaide, a damp summer, followed by great liminary" or country sections, of 134 acres heat, may cause a severe pestilential diseach, commence. Many of these have been ease; for it is by the neglect of such pre- laid out in smaller sections, and are being

The race-course of Adelaide is a peculiarly good one; and during the three days in the begining of January annually devoted to this favourite amusement, the settlers from far and near throng to the city, racing being in this, as indeed in all the Australian colonies, a very popular pastime—as are also the other English sports of hunting, cricket, &c.

Level plains extend between the city and come, is situated outside the city line, on the Port of Adelaide, in 34° 51' S. lat., 138° 34' E. long, which is situated on the eastern bank of a large creek running nearly parallel with the coast for about twelve miles, and assuming, with its numerous are two entrances from seaward — the northern is shallow; the southern contains Four bridges over the Torrens connect deep water, which is continued for ten miles It is a very fair harbour, although originally it had only twelve feet at low water on the outer bar By means of a dredging machine, the sand has been removed so as to allow vessels of 300 to 400 tons to pass the straggling appearance of the city, and into the haven; and from the nature of the submarine formation, the bar may be removed to a still greater extent, if necessary, and any improvement thus effected will be permanent. During the rainy season the Torrens pours some of its waters into the head of Adelaide creek. There is a light ship off the bar, at the entrance of the Port Adelaide creek, and a steam-tug now enables vessels to reach the shipping station without the vexatious delays to which they were That portion of the population connected with the shipping or Beneath the umbrageous canopies which the harbour, reside on the spot, and give annual horticultural and agricultural show town; but the only substantial buildings are of South Australia is held; and the occa- the wharfs, one belonging to the governsion is a festive holiday for the city of ment, the other to the South Australian Adelaide and the surrounding country. On Company, and the custom-house. There is and city of Adelaide (distant about seven grassy flats being shaded by beautiful and miles), constructed at an expense of umbrageous trees, and the land in the £12,000 by the South Australian Company, government, in exchange for 12,000 acres But a rail or tram-road is still much needed-not only from the port to the city, but also to Gawler town—for the embarkation; this useful measure will, it is expected, be soon accomplished.

Another excellent road, the foundation of which is of stone brought from Kangaroo island, has been constructed across a mangrove swamp, between the port and Albert Town, a straggling village about a mile distant; the cost of this road, from the expenstated at £14,000, which is improbable *

Besides that connecting it with the port, four other roads branch off from Adelaide, of which one leads north through Gawler town-another, called the Great Eastern the plains. Road, to Mount Barker and the Murray: the third, running southwards, crosses the places choked with the fresh-water tea-tree; range to Encounter bay, and the fourth, to the native hlac, and a dwarf species of

Glenelg and Holdfast bay.

There are several pretty villages in the vicinity of Adelaide; indeed, within five years of its establishment, upwards of "thirty villages were started" within three miles of the most stony and maccessible places. the city; in 1841, there were but seven remaining, viz, Hindmarsh, containing 200 Brighton have a good beach, and are frehouses; Bowden, 50; Prospect, 25; The- quented as bathing-places by the inhabitants 50; Islington, 45. Hindmarsh, Bowden, miles, along an excellent road, brings the and Prospect, were principally inhabited by citizen to the bay, which is a favourite evenfrom Port Adelaide to the city, and by over. brickmakers and labourers. Thebarton Gawler, is a favourite place for dairymen, several good mns.

right bank of the Torrens, is the village of lodes of copper ore exist in this vicinity. Klemzig, the oldest of the German settlements; the houses having been built by the refugees on the plan of those of their native country, contrast pleasingly with the general style. The scenery in the valley of the Torrens is described as picturesque, its having seen several large stacks of hay cut,

* Augas' Savaye Life, p. 207.

vicinity of the sources and tributaries of the and subsequently transferred to the local Torrens is very valuable. The river itself. although in summer frequently but a chain of deep broad pools, with long intervening dry spaces, in the winter pours down an impetuous stream, furnished by the mounconveyance of ore and wool to the place of tain torrents, whose channels he in the deep glens or ravines that occur between the spurs of the Mount Lofty range. scenery around the heads of these little streams is described by Mr. Angas as wild and romantic, especially that of Glen Stuart, a rocky pass between the hills, during its course through which the Moriatta rivulet dashes over steep chasms of rock, with presive period at which it was commenced, is cipices rising like walls on either side, forming three distinct waterfalls. In one of these the water has a descent of some seventy feet, falling into a deep pool, from which it again emerges on its downward mission to

The borders of this stream are in many mimosa are frequent along its banks. The variety of Xanthoreæ or grass-tree, styled Black Boy by the settlers, overruns the rocky sides of the hills, usually abounding in

The marine townships of Glenelg and barton, 100, Kensington, 40; Walkerville, of Adelaide: a charming ride of four or five persons engaged in the carriage of goods ing's excursion after the heat of the day is

The little river Sturt falls into the gulf at and Walkerville contain many substantial Glenelg, after spreading over the flats behind Kensington and Richmond are the sandhills at that place. On its banks, quiet and secluded villages embosomed in as also on those of the Onkaparinga, a more trees, with neat residences, and beautiful important stream about fifteen miles to the Islington, on the high-road to southward, there are excellent farms. township of Noarlunga is well situated about on account of the good cattle runs imme- two miles from the head of the Onkapadiately behind the village, which contains ringa, which is navigable so far for small craft. A large steam flour-mill, and a bridge About three miles from Adelaide, on the of 100 feet span, have been erected; several Beyond Noarlunga is the township of Willunga; the country between is generally good, portions of it are sandy and scrubby, but Morphett's Vale is a rich and extensive piece of land, from which Sturt mentions before it was settled, and while yet in a

state of nature. Willunga hes close under 33°20', and then by the down course of the extremity of the Southern Aldingha plains. these points forming the western boundary. Close to this point is the conical hill named Mount Terrible. which forms the eastern boundary of the extensive plains on which Adelaide stands is bank), as far as the Great Bend; from about three miles distant; the intermediate thence by a direct line to the north-east Mount Barker road, is laid out in carefully western boundary. cultivated farms. On the first rise is the road winds up a romantic valley to the sum- is the most settled. The chief placeto the north of which is Mount Torrens.

South Para rivers, beyond which he the rich flows to the westward of the shores of St. districts of Lynedoch valley, of which how-

now noted.

north and north-east of Adelaide, are as

Gawler County, bounded on the south by the Wakefield river, bounded on the north the north from Gawler town." by this river, and on the west by the coast.

the Gawler county, and on the south by between the Gawler and the Rhme; thence the northern road.

east by the main range as far as the parallel of beautiful country is termed, situated between

the foot of the hills, which here trending to Broughton river, till about due north of the the south-west, meet the coast line mouth of the Wakefield, a line connecting

Eyre County, bounded on the south by The Mount Lofty range Sturt county; on the east by the Murray, (including the sections laid out on each space traversed by the Great Eastern or angle of Light county, which forms the

Of the territory comprised in these four Glen Osmond lead mine, from thence the counties, the central and southerly portion mit of the range, which is covered with a Gawler Town, situated in the angle formed dense forest of stringy bark, and adorned by the junction of the httle Para and Gawler with a great variety of papilionaceous plants; rivers, though yet in its infancy, promises and several beautiful kinds of orchidacese. to become of considerable importance; it On the eastern confines of Adelaide county is contains a church, three or four good inns, the village of Hahndorf, with its industrious a steam flour mill, several stores, and other Prussians, situated among the Mount Barker buildings. The copper ores from the Burrahills, and the village of Narre, immediately Burra mines pass through this town for shipment at Port Adelaide, which is about To the north and east of the city of Ade- twenty-three miles distant. Gawler river laide are extensive tracts of fertile land, rises in the southern part of the Barossa intersected by the valleys of the North and ranges, and after receiving the Little Para, Vincent's gulf. It has extensive and wellever but a small portion is comprised within wooded flats of deep alluvial soil along its the county whose leading features we have banks, flanked by the plains of Adelaide, the line of trees running across them, only The names and limits of the four counties with a broader belt of wood, indicate the course of the river in a similar manner to that of Adelaide creek. "Except these features," says Captain Sturt, "and two or Adelaide county as far as the extreme east of three box forests, at no great distance from the Gawler special survey (all of which it Albert town, the plains are almost destitute includes), thence by a line following round of timber, and being very level, give an idea this survey to the main north road, and of extent they do not really possess, being running along this road to the crossing of succeeded by pine-forests and low scrub to

Beyond Gawler town, both to the north Light County, bounded on the west by and east, a decided change becomes perceptible in the character of the country; the Adelaide county, as far as the dividing ridge monotonous plains give place to an undulating and highly wooded district, containing by a line following the main range to the many fertile valleys. The road between north, past Mount Rufus, to above the Gawler town and the river Murray, at about sources of the Light, in the parallel of about eight miles from the former, passes through 33° 50'; turning round the ridge on the Lynedoch Valley, an extensive and fertile west bank of the Gilbert, in a line nearly tract, where there are two copper mines and direct upon Mount Horrocks, until it meets a pretty hamlet. There is very little surthe eastern sources of the Wakefield, and face water; but a copious supply, of excelrunning along this river to the crossing of lent quality, has been found attainable by digging five or six feet down in the centre Stanley County, bounded on the south by of the valley. Lynedoch valley is bounded the counties of Gawler and Light, on the on the east by the Barossa range, as the

the river Light and the hills, called the grow corn for their own consumption; here, nock hills, and possesses a considerable number of comfortable habitations, a good hotel, excellent place of worship, with a cemetery, enclosed by stone walls

About twelve miles to the north-west of Angaston, close to the river Light, is the is the famous Burra-Burra mine, situated on rich copper mine of Kapunda, the property the Burra creek, about eighty-five miles in of Captain Bagot and Mr Dutton, from a direct line from Adelaide. The ores he which the valuable muriate of copper, or in the same direction as the ranges in which acatamite, previously found only in South they are placed. Captain Sturt makes the America, is procured. The cottages of the following mention of this immense mine miners are built of stone, obtained from "The deposits of iron are greater than those a hill of clay slate on the property, which, of copper, and it is impossible to describe being more or less tinged with copper, gives the appearance of the huge clean masses them a peculiar appearance. A chapel, of which they are composed. serving also as a school-house, has been indeed, like immense blocks that had only erected, and the little hamlet wears a cheerful just passed from the forge. The deposits aspect. Before long, a township will pro- at the Burra-Burra amounted, I believe, to bably be formed here. The river Light desome thousand tons, and led to the impresserves remark, not only for the mineral sion, that where so great a quantity of surwealth in its vicinity, but also for the thou- face ore existed, but little would be found sands of acres of fertile soil ready for the beneath. In working this gigantic mine, plough, diversified by undulating hills, with however, it has proved otherwise. I was here and there patches of open soil. The informed by one of the shareholders, that fertility of the numerous branch valleys it took three hours and three-quarters to which strike off from the main channel of go through the shafts and galleries of the the Light, on each side, is testified by Mr. mine. Some of the latter are cut through Dutton from personal acquaintance, he solid blocks of ore, which glitter like gold having resided, for some time, at Anlaby, where the hammer or chisel has struck the under Mount Waterloo.

On the Light river, and from thence them." northwards, the cultivation of the soil is not carried on, excepting by those settlers who Dutton. 1846.

Heranian range; those termed the Hawdon also, "the bush" may be said to commence, range and the Belvedere range, comprising as all the country to the north, taking in an area of about 225 English square miles. the Wakefield, Hill, Broughton, and Hutt This district is rich in metals, deposited rivers, Crystal brook, &c., as far north as close to the surface, and occasionally crop- Mount Arden, is occupied by sheep and ping out. It is watered partly by the Gawler cattle farmers. In these districts there is no and partly by the little river Rhine. One lack of the best soil, and in most of them, of its most picturesque and valuable tracts land already surveyed is open for selection is Angas Park, the property of Mr. G. F. to the newly arrived emigrant * A remark-Angas, which is about seven miles long and able feature in the extensive downs through four broad, with a deep siliceous soil, black- portions of which the Wakefield flows, is ened by the abundance of vegetable matter. the absence of trees; they are, neverthe-Salem Valley is a lovely spot: the flat of less, well grassed, and covered with a prothe valley, through which the Gawler flows, fusion of orchideous plants. The Broughton is from one to five miles broad, with undu-river, which, as we have before seen, forms lating hills rising on either side. The the northern boundary of Stanley county, thriving village of Bethany, inhabited by and, consequently, of the territory of which several hundred Germans, is situated at the we have been speaking, was crossed by Eyre foot of the Barossa range, as are also those in 33° 28' S lat At that point its bed of Lobethal and Langmerl; but the chief is of considerable width, and its channel place in the district is Angaston, at German occupied by long, wide, and very deep water Pass, which is picturesquely situated at the holes, connected with one another by a head of a ravine, looking towards the Gree- strongly running stream, which seldom or never fails, even in the driest season. The soil upon its banks, however, is described schools, and stores. Outside the town is an as not valuable, being generally stony and barren, bearing a sort of prickly grass (spinifex). Wild-fowl abound in its pools.

In the eastern portion of Stanley county They look. rock, as you pass with a candle among Statistical information respecting

* South Australia and its Mines, by Francis

this extraordinary mine is given else- in St. Vincent's gulf below Mount Terrible.

The greater part of Eyre county is occuand ninety from Adelaide. tion of property, which were constantly Mount Terrible. occurring between the settlers coming over-Eyre as resident magistrate and protector across Lake Victoria to Point Sturt. of the aborigines, was most judicious, from had acquired over the natives. By his exertions, aided by the occasional distribution of a limited supply of blankets and flour among the aborigines, their good-will has been obtained, and the banks of the Murray, no longer the scene of conflict and slaughter, are now occupied by stock stations; while in calm weather, the natives, in their canoes of bark, are constantly upon its waters, busily employed in striking fish.

New Zealand, has been succeeded at Moorundi by Mr. Scott, whose influence appears to equal that of his predecessor.

To the south of the county of Eyre he the counties of Sturt, Hindmarsh, and Russell.

Sturt County, bounded on the south and east by the Russell county, as high as its termination in about 34° 50' S. lat., and thence by the Murray (including the thirtynine sections), to the parallel of about 34° 32′ due east of the dividing ridge between the Gawler and the Rhine, a line between which points forms its northern limits; on the west by the counties of Adelaide and Hindmarsh.

line from the termination of the main range much fine agricultural land, there is also

round Cape Jervis, to the sea outlet of the Murray; thence by the south-east shore of pied by "the dark and gloomy sea of Mundo Island, in Lake Victoria, to Point scrub" previously adverted to as the Murray Sturt, on the northern shore of the lake. Belt, here about twenty miles wide; the thence by a direct line across the lake to hilly country immediately to the westward the mouth of the Bremer; thence by that of it, is of an inferior description, portions river up to the crossing-place of the eastern only being occupied as sheep stations. A road, above Langhorne's station, thence, dray-road has been formed through the taking a line about N. 20° W., till it strikes scrub, communicating with the government the main range at Mount Barker, constation of Moorundi, distant twenty-six tinuing along the eastern range (enclosing miles from the Great Bend of the Murray, the Mount Barker survey), to Mount Mag-It was estab- nificent; thence by a course about northlished by Governor Grey, in 1841, in con- west, to the top of the Willunga range, sequence of the collisions, too frequently where it is crossed by the southern road, attended with loss of life and great destruc- and following the ridge to the sea below

Russell County, bounded by the coast-line land with stock from New South Wales, from the sea outlet of the Murray, to a spot and the natives. So deep a spirit of revenge opposite where the Salt creek empties itself had thereby become kindled in the breasts into the Coorong; by this creek, to the of the latter, that although suffering severely rocky ridge at its source, and thence by from every contest, they would not allow taking a line due north, till it cuts the any party with stock to pass along the line Murray, in about 34° 50′ S. lat., bounded of the river, without attempting to stop on the north and west by the Murray, as their progress. The appointment of Mr. far as Pomunda; thence by a straight line

Of the territory included in these three his proved humanity, and the influence he southern counties, the finest and most cultivated portion is comprised in the district which, taking its name from its distinguishing feature, is called Mount Barker. mountain, with its saddle-backed summit, is a very conspicuous object, visible for many leagues in the interior, beyond the Murray, it forms a landmark for overland parties from New South Wales, by which they steer for the settled districts of South Australia. The district may be said to ex-Mr. Eyre, now heutenant-governor of tend from the village of Nairne (before mentioned) to Strathalbyn, on the river Angas, the latter place being fifteen miles from the shores of Lake Victoria. It abounds in beautiful valleys which, though of limited extent, are level and clear; their soil is a rich alluvial deposit, and the plough may be driven from one end to the other, without meeting a single obstacle to stop its The trees are grouped as if by progress. the hand of art. All British grains and fruits are climatized here — and apples, strawberries, and other fruits, which do not thrive well upon the plains, grow luxuriantly at Mount Barker, while upon the sunny low lands, all the fruits of the Mediter-Hindmarsh County, bounded by the coast- ranean are produced in abundance. Besides ranges entirely useless, even to stock.*

district, contains a court-house, where a there are, at least, 50,000 acres of good bench of magistrates sit once a week; a agricultural soil on the borders of the latter police-station, a post-office, a school-house. steam flour-mill, an inn, and some respectable private dwelling-places. The German the abrupt cape called Rosetta head and village of Hahndorf, before named as situated on the confines of Adelaide county, belongs to this district, as does also the township of Macclesfield, situated on the river Angas This stream has its source in some clear bubbling springs near the township, that gush up from the earth, shaded by mimosa trees, supplying a constantly running brook of the purest water. Macclesfield is, at present, a pretty little village; the white cottages and tents of its settlers, intermingled with corn-fields and gardens, and of the gum-trees, bespeaking the nucleus of the future town + Its native name is Kangooarınılla, signifying "the place for kangaroos and water"

To the east of the Mount Barker district a flat country, with a poor and sandy soil, extends to the Murray belt, beyond which, on the direct road to Mount Gambier and Rivoli bay, and fifteen miles below Moorundi, is the site of the township of Wellington, as yet only a station for the mounted police A ferry has been established here across the Murray, which enters Lake Alexandrina, about half-a-dozen miles from this

point

"The country immediately to the eastward of the Murray affords, in some places, a scanty supply of grass for sheep, but, generally speaking, it is similar in its soil and rock formation, and consequently, in its productions, to the scrubby country to the

westward "1

Many parts of the shores of Lake Victoria are composed of rich land, but in others they are very bleak and desolate. The ground on the eastern side of the lake is a sand flat, gradually improving to the southward; where the shore begins to trend to the westward, it becomes very good. The rising ground behind, though sandy, affords excellent back-runs for cattle, and the hills are well timbered. Along the eastern and southern shores of Lake Albert,

a considerable portion of good pasturage; the same character of country continues, but but there are, nevertheless, many stony the soil appears to be still better, and the flats become more extensive. Mr. Frome Mount Barker, the county-town of the states, in his report, that he considers that

> The District of Encounter Bay lies between the sea-mouth of the Murray. It consists of several beautiful valleys, covered with luxuriant grass, and backed by the ranges of hills which, opposite Encounter bay. occupy nearly the centre of the promontory, forming a division between the eastern and western waters, which is marked by a considerable breadth of stringy bark forest The settlers here are numerous, and the whale-fishery is carried on with considerable success.

Currency Creek and Finniss River empty groups of cattle reposing under the shade themselves into the Goolwa, as the lagoon is called connected with Lake Victoria, to the eastward, the valley of the former stream is prettily wooded and grassy, but contains no very great extent of good land To the north and south it is bounded by barren scrub. Near the head of the creek is a great sandy basin, which forms a striking contrast to the fertile valleys in its vicinity, and is, in itself, a remarkable physical feature At an elevation of between 600 and 700 feet, this basin is surrounded by rugged stony hills, excepting to the south and the south-east, in which directions it falls into the valley of the Hindmarsh and Currency creek, respectively. Mount Magnificent, Mount Compass, and Mount Jagged, rise in isolated groups in different parts of this basin, the soil of which is pure sand; the surface undulating, and in many parts covered with stunted banksias. The Finniss rises behind Mount Magnificent, and is joined by a smaller branch from Mount Compass, as it flows from the eastward.

To the north-east of Hindmarsh river, hes the narrow but beautiful valley of the Myponga, between which and Mount Terrible, the country is poor and scrubby. Aldınga Plains (to the north of the Myponga,) are sufficiently extensive to feed numerous sheep; but are at present unused, from their deficiency of surface water. The httle river Yankahlla empties itself into Gulf St. Vincent, passing between hills of white sand, overgrown with an almost endless variety of dark evergreen shrubs and

^{*} Captain Sturt's Account of South Australia.

⁺ Angas' Savage Life in Australia.

[†] Captain Sturt.

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mine of Yattagolingay.

Australia, it may be noticed, that from Cape cable route for wheeled vehicles has been or heath, generally the latter. repeatedly traced to a good and available markable, in the north, equal in lineal distance to the space of country between the eastern boundary of Middlesex, and containing, it is believed, as large a proportion of rich of its kind, and available for agriculavailable land in a given breadth, as was tural or horticultural purposes. comprised in that division of England while yet in a state of nature.

Partially located and unsettled Districts.— The extremity of the Eyria peninsula, situ-

Australian bight, comprises,

from Cape Catastrophe to the northern extremity of Louth bay, including all the islands on the coast between these parallels, as well as Wilham's and the Gambier island; undetermined.

The settlement at Port Lincoln is the only one, not merely in Flinders county, but in the whole province westward of therly subdivision of these ridges, i.e., from Spencer's gulf. The character of the neight the "Sheep hills," in 34° 11' to "Northside bouring country, and the future prospects hill," a direct distance of forty miles, the of the township, have been differently viewed country is extensively covered with good by several explorers; some contending that grass; towards Cape Catastrophe, a similar the territory around is worthless, others country, though in a more limited proporthat there are large fertile tracts. Unless. however, a district be thinly wooded, and many fine valleys, one named the Tod is explorable by navigable rivers, it is almost sixteen miles in length, and has numerous impossible to form an accurate opinion.

whose geographical and geological observations are extremely valuable, the surface now available for agriculture, as the soil in of the Eyria peninsula, which is nearly an these valleys is of excellent quality. In the equilateral triangle of 200 miles on each side, is divided into three great portions .-(1) the mountainous table-land tract; (2) the low undulating country; and (3) the hill country. The first has been noted at p. 660. The many short and narrow mountain ridges, from the Happy Valley in a northerly direc-

salsolaceous plants; like the valley of the plateau, in much confusion, but with the Myponga, that of the Yankalılla ranks prevailing direction towards Spencer's gulf, among the most fair and fertile tracts in are generally grassy and sprinkled with the colony; the country between them is small casuarina trees; the water-courses beexceedingly romantic, becoming more broken tween these ridges are occasionally lined and mountainous towards Rapid bay, a short with casuarina, and with pines twenty-five distance from whence is the valuable lead to thirty feet in height; the great outer slopes of the table-land are also frequently Before leaving this portion of South grassy; but the small plains between the bases of the ridges and the water-courses Jervis, its south-east extremity, a practi- are almost always covered with brush, scrub,

The herbage is of the description known country twenty miles beyond Mount Re- as kangaroo grass, but more commonly of the same slender sort as is seen on the plains between Adelaide and the sea. The eastern boundary of Cornwall and the soil which bears the grass is a red ferruginous sandy loam, much of it appearing

The low undulating country forming the tongue of the peninsula consists of gentle elevations, not more than 300 feet above the sea, and is said to be a poor region. ated between Spencer's gulf and the Great A scarcely varying and nearly flat belt of brush, scrub, and heath, seven to fifteen Flinders County, which is bounded on the miles wide, extends along the sea-coast to south by the coast between Capes Wiles and the base of the mountain table-land, whose Cape Catastrophe; on the east, by the coast drainage passes through this tract. Several salt lagoons, frequently dry and clotled with fine groves of the "salt-water tea tree," are found in this district.

The Hill Country, elevated 600 to 1,000 the northern and western limits are still feet in height, commences in about 34° 10' S. lat., and has its common courses to northeast and south-west, with strong deviations to north-west and south-east. In the nortion, extends. The Hill country contains lateral branches. Another, six or eight According to Lieutenant-colonel Gawler, miles to the west of Boston bay, is a succession of broad swamps, some of which are hill ranges there is a considerable quantity of permanent surface-water, the grassy hills and valleys are sprinkled with fine casuarinas, and the scenery is very beautiful.

Captain Hawson ascended the Hill country which rise from 300 to 700 feet above the tion for fifteen miles to the confluence of the Tod and Severn rivers, about five miles west-imputation of barrenness; there are now north-west of Mount Gawler (twenty-one from 70,000 to 100,000 sheep in this dismiles distant from Boston bay.) During the trict, and a practicable line of route having whole of this journey, he passed over a been discovered from Adelaide along the very fine sheep country, the hills being western shore of Spencer's gulf, the value of covered to their summits with grass. The landed property will most probably increase; explorer reached Cowan's Vale and lake, the more so, if, as reported, good copper ore (part of Steven's river,) about twenty miles be also found in this part of the colony, north-north-west of the Happy valley, which has already commenced shipping "Nothing," he says, "can be imagined more beautiful than the country about this England. vale (which is about five miles long by one dant, and growing to a great height." towards Mount Arden, September 18, 1839. for agricultural purposes. The hills in every year round. During this journey of fifty miles the travellers were never two hours growing upon the sand ridges. miles of unavailable land appeared to be of a similar character coln, is equally favourable; he says the tion tural purposes.

tives. Port Lincoln, there is a rich and beautiful Australia. country, as yet but little known, having several fine lakes of water, and luxuriant examined; so far as is known, the shore is pasture land, scattered with park-like trees; generally low, with several sandy beaches, beyond these lakes rise two distinct ranges on which may be seen ironstone, granite, of lofty and abrupt hills. Waungerri is the whinstone, and quartz. The land, as seen native name for the largest lake, which near Point Pearce, rises gradually from the abounds in black swans and other water-coast towards the centre of the peninsula, fowl; kangaroos, emus, and a variety of and consists of open plain, with occasional smaller game are still numerous in the sur- belts of forest. This description of country rounding country, which is unoccupied by appears to exist as far as the eye can see, settlers.

nesses fully redeem Flinders county and grasses. Fresh water has been discovered

wool and tallow direct from Boston bay to

Mr. Eyre crossed the country in a direcbroad); the grass in the flats being abun- tion nearly due east from Streaky bay Smith's Valley, eight miles distant in the The first part consisted of alternations of same direction, is equally rich, and contains brush, of open grassy plains, and high many thousand acres of excellent land fit scrubby and sand ridges, interspersed with hard limestone flats, to the base of the direction are adapted for pasturage, and Gawler range (see page 660), whence the abundantly supplied with water the whole route was through a perfect desert, very scrubby and stony, with much prickly grass The hills without water, and did not meet with five seen were without either timber or shrubs, When at the and very barren, with their front slopes exgreatest distance from the Happy valley the ceedingly steep, and covered by small loose country, as far as the eye could reach, stones, several salt lakes were seen in various directions, but no indications of fresh-water The opinion of Mr. Robert Tod, of the or springs Ridge behind ridge appeared to country to the north and west of Port Lin- rise to the north-west, increasing in eleva-Further east the view from a hill majority of the hills, even during the dry showed to the north one vast sea of level season, afford good sheep pasture, while the scrub, and in the midst of it a lake. The valleys appear to be adapted for agricul- journey to the head of Spencer's gulf was performed with much difficulty; Eyre says, Major O'Halloran and a party of police "there were no water-courses, and no timmade two excursions, one of eighty-five ber-all is barren, rocky, and naked in the miles to the north-east, and the other of extreme" It appears to me probable that fifty-five miles to the north-west of Port the Gawler range extends continuously to Lincoln. He reported the country to be the north-west, and that a good country well watered, covered with luxuriant herbage, may be found on the northern sides of the abounding in game, and with numerous na- range at a distance of fifty to 100 miles Angas, writing in 1846, says that inland from the Great Bight, improving about thirty miles to the north and west of as it approaches the districts of Western

Yorke Peninsula has only been partially north or south. The soil is light, of a These opinions of disinterested eye-wit- loamy nature, and well covered with fine the Port Lincoln neighbourhood from the in several places. The scrub and pine brush are in belts, but not dense.* The water county a township has been laid out on the province increase.

found. After passing the Mount Remarkof the gulf, and towards Lake Torrens

the high land, extending north from Mount Bryan, as far as Mount Hopeless, a distance of 300 miles, as far as the meridian of 141°, and probably beyond it, the result of several investigations shows, that there is no land available for either agricultural or pastoral purposes, and in the unbiassed opinion of Captain Frome, of the Royal Engineers, though there may be occasional spots of good land at the base of the main range, on the sources of the numerous creeks flowing from thence towards the inland desert, these must be too limited in extent to be of any present value.

Two recently-formed, but important counties, yet remain to be noticed, situated in the south-eastern portion of the colony,

Robe County, bounded on the north by the parallel of 36° 54' S. lat., extending from the sea-coast to where it intersects the 141st meridian; on the east by the said meridian; on the south by the northern south-west and west by the sea-coast.

Grey County, bounded on the east by the meridian of 141° from the sea-coast, to where it is intersected by the parallel of 37° 20' south; on the north by the said parallel, from its intersection with the 141st meridian, to the sea-coast; on the south-

* Report of Mr. Hughes.

shed appears to be westerly. It is prema-Guichen bay, and one in Grey county, on ture to decide as to the pastoral or agri-Rivoli bay. Governor Grey, accompanied cultural capabilities of the peninsula, or as by Mr. Deputy-surveyor Burr, explored the to its mineral resources. The geographical territory now comprised in these counties in position is good; with navigable gulfs and 1844. From the statement of these genharbours on either side, and possessing a tlemen we learn, that an almost unintertemperate climate, it will doubtless attract rupted tract of good country stretches attention as the population and wealth of between the rivers Murray and Glenelg, which, in some places, thins off to a narrow The country to the eastward of the head belt; in others, widens out to a very conof Spencer's gulf, and north of Stanley siderable extent; and towards the bouncounty, has not been well explored the daries of Victoria province forms one of the district about Mount Remarkable is said to most extensive and continuous tracts of good be exceedingly picturesque and good, and country which is known to exist within the possessed of considerable mineral advan- limits of South Australia. The general tages. A special survey of 20,000 acres has features of this line of country may be been taken by a company, for the express briefly stated. From the neck of the peninpurpose of working any lodes that might be sula which separates the Coorong from Lake Albert, to the Salt creek, or Bonney's creek, able range, the aspect of the land deterio- there is a belt of grassy casuarina hills, with rates, and continues falling off towards the numerous plains of good soil, in which water dreary region which extends round the head may be obtained within a few feet of the surface. This belt is bordered on the north-With regard to the country eastward of east by desert country, on the south-west by the Coorong. From Bonney's creek to the crossing of the Coorong, a distance of about thirty-five miles, the road passes generally amongst a succession of salt swamps and low scrubby hills About two miles north of this road, and following a direction nearly parallel to it, is the low range, named Wambat range, behind which there is an extensive fresh-water swamp, several miles across, which appears to be subject to annual inundations The soil on this swamp is similar to that on the flats of the Murray; in it are many grassy hills, which have the appearance of islands Beyond the swamp, to the north and north-east, there are a succession of ranges which do not, from a distance, look very promising. From the crossing of the Coorong to Cape Bernoulli the country improves; from Cape Bernoulli to Guichen Bay, and for some distance around Mount Benson, and to Lake Hawdon, there is a useful tract of country. There are several ridges of high land, sepaboundary of Grey county; and on the rated by low level ground, a great portion of which is subject to mundation; but the soil is excellent; and some of these plains have been sufficiently raised by volcanic action, to render them dry and available for pasturage or agriculture. Around Rivoli bay there is much good land and picturesque scenery; from thence to Mounts Schanck west and south by the sea-coast. In Robe and Gambier (see p. 661), the country is, for the most part, of the richest description, the soil of a dark brown loam. The trees and in the same latitude as Mount Arden. extraordinary size; beside which, there are celebrated for the ferocity and cannibalism of its inhabitants, is now occupied by settlers. considerable numbers, to form stations there. Between the land bordering the left bank of the Murray, and that contiguous to extent still to be explored, before any decided opinion can be formed as to its character.

The following are the sailing distances, in nautical miles, from Adelaide:-England. 11,500; Cape of Good Hope, 6,000; Ceylon, 4,500; Mauritius, 4,400; Timor, 2,700; Java, 2,650, Melbourne (Port Phillip), 450, Sydney (New South Wales), 1,134, Freemantle (Western Australia), 1,400 miles.

Geology.—There has evidently been, in this portion of Australia, a subterranean movement of great power, which, finding no vent in the northern district, in the vicinity of Mount Arden, pursued a southerly course, where it met less resistance, and by successive upheavings tore up the superincumbent strata, and raised to a considerable elevation a belt or zone of rocks, flanked by similar and parallel ridges The dip of the strata composing the mountain range of South Australia, from 32° to 36° S lat, so far as has been observed, is generally to the southward, the exception to this declination is probably attributable to the existence of rocks of igneous origin, such as granite, sienite, greenstone, &c. The rocks, of which the main range is composed, belong to the oldest of the primary strata; they are, so far as known, totally devoid of any evidence of the existence of animal or vegetable life during their formation; but the rocks on the plains teem with fossil remains, many of which belong to species identical with, or nearly allied to, the species now existing in the adjacent seas. The primary or sedimentary rocks of the mountain range have manifestly been forced out of an horizontal position by subterranean action; but the strata composing the plains which rest upon the sedimentary rocks are perfectly horizontal, and have, therefore, evidently not been subjected to the influence of the upheaving power.

Near Mount Arden, the indications of volcanic agency are more manifest than at

grow luxuriantly; the blackwood attains an to the eastward, Captain Frome, of the royal ingineers, noticed basaltic rocks, thermal several trees quite different from those of springs, and what appeared to be the crater Adelaide. The Tatiara country, once so of an extinct volcano. It appears to me that the axis of perturbation was to the south-east, and that the pent-up gases found. who have of late crossed the Murray, in or rather forced, an exit in numerous small volcanoes, of which the craters are still to be seen in the province of Victoria, on the line of country extending from Lake Hindmarsh the sea-coast, there remains a considerable to the basin of Port Phillip. The manner n which the Adelaide range was raised from the bed of the ocean, is explained by the following diagrams, prepared by Mr. Burr, who has given much attention to this interesting subject .-

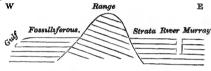
Fig 1

"This section exhibits a regular succession of strata of the same mineralogical character, and lying in the same order The arrangement might be conceived to arise from a uniform and powerful sub-terianean action on strata, which had formerly been horizontal, and placed above one another in the following order -

Fig 2

Where a, b, c, d, and e, represent strata of sedimentary rocks, which were originally deposited on the unstratified rocks, f For it is evident, that in order to produce the effect exhibited in Figure 1, we have only to propel a force, having a tendency to rise upwards, from the north to the south, when the horizontal strata in figure 2 would be thrown into a position similar to that exhibited in figure 1, which represents, in a general manner, the arrangement of the strata composing the principal range of South Australia. In this figure, a represents a quartzose sandstone traversed by veins of quartz, frequently accompanied with ironstone; b, a coarse dark-coloured slate, with veins of quartz, and occasionally of laminated specular iron, c, limestone beds, frequently very impure, and passing into slate and slaty sand-stone. In this there are frequently veins of calcareous and other spars, with quartz, and ores of the metals, iron, copper, lead, &c, &c, d, mica slate, chlorite slate, hornblende slate, passing upwards into sandy slates, and thence frequently into sandstone. the portions of this range farther south; This strata is also metalliferous, and contains veins of hornstone, in which are calcedony, opal, agate. cornelian, and pasper of varieties, especially near its junction with the strata immediately above it; e, gneiss, which is metalliferous, and frequently contains garnets, f. granite, and other igneous rocks

The thickness of the strata varies much in different places, but the exact extent has not vet been ascertained. The arrangement above given is subject to variations arising from local causes. In all probability the east and west faces of the Adelaide range were covered by the ocean, long after the force which raised the mountains had ceased to operate in that direction. Mr Burr is of opinion that the successive deposits accumulated at the foot of the range were, at no distant geological period, raised, from being the bed of the ocean, to the position of dry land, by an intense and deeply-seated upheaving force, which, by degrees, and in an uniform manner, raised the fossiliferous strata to their present level; and that this force was exerted in a direction from west to east, as explained in the following diagram .-



In support of this opinion, of a positive, or at least comparative period of repose, it is noticed that the embouchures of the ravines, close under the range, have all the appearance of having once formed a sea beach. Mr. Burr adds, that "the fossiliferous strata are composed of a succession of horizontal layers of limestone, of greater or less purity, but generally containing a large proportion of sand, especially the lower beds which have been exposed to view, some of which are indurated sandstone, good for building, containing, when compared with the upper beds, but few fossil remains. These rocks are nearly white, or of a cream colour. fossiliferous strata, which are considered to belong to the tertiary period, are generally covered with a deposit of soil and limestone, that does not contain any visible organic This may have arisen from a gradual shallowing of the water by the rising of the land; for the tides and current in shallow water, would be more destructive to the remains of animals, than if they were deposited in mud in water of a greater depth. The surface soil, consequently, is such as might be supposed to arise by the nothing similar to it in Europe, where it is usually a

drying of an impalpable mud, formed of attrited shells and other matter, which had been subjected to the action of the tides in shoal water. The strata composing the tertiary formation contain beds of the sulphate of lime (gypsum), the nitrate of potassa, and bitumen.'

The gypsum found is rather a sandstone. containing a sulphate of lime, formed by shells and other calcareous matter, which, from its affinity for the sulphuric acid contained in sea-water, and disengaged perhaps by extreme heat, or other agency, united to the lime, and left the silica nearly pure. Mr Burr accounts for the nitrate of potassa, which is found in an efflorescent state on the surface of the rocks, by supposing that the potassa contained in the rocks united with the nitrogen of the atmosphere in hot and dry weather; and the bitumen from the decomposition of water by animal and vegetable matter.

The vast fossil bed which extends from about the meridian of 139°, with an imperfectly-known width, towards the western boundary of the province, and from the sea-mouth of the Murray to 32° 40' S. lat. indicates that a large extent of South Australia was, not long since, submerged strata are horizontal, surface level or slightly undulated, and the greatest elevation about 400 feet above the level of the sea. upper stratum consists of beds of common oysters and oyster-shells, unbroken, three to four feet in thickness. Below this stratum there are deeper beds, of mixed coral, echini, pectoris, spiralis, and other small marine shells, generally much broken, and deposited in sand, limestone, and selenite, alternating with beds of sand without shells. At the base of these, or beneath them, are vestiges of fish, teeth, and nautili, four or five inches in diameter. Beds of excellent compact limestone occur sometimes in the fossil formation.

During the process of sinking wells at Adelaide, beds of oyster-shells, very perfect, were found forty feet below the surface; that is, seventy to ninety feet above the present ocean level.

Mr. Menge is of opinion that the terrace which occupies an undulated plain between the Barossa and Rawdon ranges, in some places about ten miles in breadth, has been caused by a pseudo-volcanic agency; that is, by hot springs: but, he adds-

"The hornstone within the Barossa range has

combination of quartz and felspar; whilst the South Australian hornstone combines quartz, magnesia, and lime, which produce a variety of siliceous minerals of which I have never seen anything alike. rock itself turns not merely round its own character in different shapes and colours, but it includes, at the same place, jasper, cornelian, chalcedony, opal, woodstone, and siliceous tuffa, altogether more or less varied by accidental ingredients of iron, magnessa, and lime Common jasper and opal jasper form strata and veins in hornstone, and occupy sometimes the whole place of the rock. Chalcedony and opal occur in veins, which are very numerous, and both are botryoidal where pores and caves occur in the veins, without the least disposition to crystal-Crystallized substances, besides sulphuret of iron, seem to be combinations of magnesia and lime, as bidderspar, rheticite, grammatite, &c Silver-white foliated talc spreads through the whole rock, but seldom through chalcedony, and very frequently through opal and siliceous tuffa The last is sometimes perfectly like that from the Geysers, in Iceland There are two different series of siliceous tuffa. the first is quartz, and begins with porous hornstone or chalcedony, and ends in a spongy mass, like pumice; the other is in connexion with opal, takes the shape of siliceous ghur or hydrophan, and ends in a kind of freestone Opal occurs in great abundance, partly as milk opal, partly as wax opal, fire opal, common opal, semi opal, and precious opal The fibres of asbestos, which run frequently through the opal, give it a chatoyant lustre, and the enclosed talc looks exactly like silver in the mass Veins of opal run in almost every direction through the hornstone, as well as through siliceous tuffa, without regular stratification, and if they be once opened, we shall have precious stones in great abund-Red and blue striped opal-agate appears sometimes on the surface with dendritic manganese, which seems to form a vein in the interior, but it is red and yellow opal jasper which occupies often the places of hornstone, or forms regular strata in it.
"The veins of chalcedony run partly through

a compact hornstone, partly through porous hornstone, and partly through woodstone or fibrous hornstone, and sometimes through wood asbestos or rock wood It forms a kind of oynx with woodstone and with opal in zones, and is generally blue, bluish-white, or yellow, and forms a transition, through a red colour, into cornelian. The milk-white chalcedony, with enclosed fibres of asbestos, forms the cat's-eye, which is of frequent occurrence in Amianth-place, as well as in Flaxman-valley."

This peculiar formation is frequently interrupted by strata and beds of magnetic iron ore and white marble, or magnesian limestone; and it seems to be cut off by a

Primitive limestone (white marble) is found in great abundance in the mountains east of Gulf St. Vincent. Mr. Menge places, principally in the beds of rivers, or met with fifteen hills of it within the Barossa at the bottom of deep gullies; sometimes range, along the formations of hornstone, also forming some of the high peaks, as in magnetic iron ore, and tale, or of magnesian the Barossa range. Other heights are capped rocks. Some has been found as fine-grained with the old red standstone; and a recent as that of the celebrated Carara in Italy, onlitic limestone covers the clay slate of

On Cornflower hill, the table marble is easily separated into flags of any size. In Flaxman valley, the primitive limestone abounds with magnetic iron ore The western slope of the Barossa range, along the Angas Park, from Light Pass to Salem valley, is enturely white marble. Even the springs which irrigate German Pass are impregnated with carbonate of lime. Within the Belvedere range there are several strata of transition limestone. The limestone on the plains is full of shells in a petrified state, and was formed from the ocean; that on the tops of hills seems to have had its origin from the primitive limestone usually deposited on elevations, along with a breccia of quartz pebbles connected by bog iron ore, as the superstratum on the primitive slates.

The tertiary limestone seems to be spread over a large part of the southern and eastern coasts of Australia, not merely through its plains, and around its shores, but also on its elevations. These different formations of lime indicate abundance of minerals.

Mr Menge, who has geologically examined the Uralian mountains, and seen there lumps of malachite, or carbonate of copper, weighing more than a ton each (found between primitive limestone and clay slate), and lumps of gold 20 to 25 lbs weight each (found between primitive limestone and mica slate), is of opinion that the corresponding strata in Australia will yield

equally valuable products

The lower slopes of all the mountain ranges are chiefly composed of slate, in the Mount Lofty range, generally transition, very much resembling the greywacke of North Wales. Proceeding to the east or southward, it becomes harder, and of a red colour; and still farther to the south, it appears as finty, mica, or hornblende slate. The surface of earth on the slate is always grassy. The summit of Mount Lofty is capped with highly ferruginous sandstone; and the Mount Barker range exhibits a conglomerate of ironstone and angular pieces of quartz. The ferruginous sandstone and ironstone conglomeformation of porphyry in the Hernanion rate is marked by stringy bark forest or

> Throughout the Adelaide range, says Mr. Dutton, granite shews itself in different

tions of this main range are, generally speaking, the same throughout. The stratified primitive rocks on each side of both the gulfs St. Vincent and Spencer begin from Cape Jervis, and extend to the northward for about 200 miles: they are generally, according to Mr. Menge, accompanied by a formation of gneiss on one side, and another of clay slate on the other side. The gness is frequently interlined with extensive banks or strata of granite, which often run out into pure quartz, and the clay slate occurs in all its modifications in colour and mixture.

On the Mount Remarkable range, the prevailing rock is a very hard white sandstone; and on the west coast, a coarse red sandstone prevails. Governor Grey, who examined this district, was of opinion that the range of mountains as far as Mount Arden abounds in minerals.

The prevailing rock in the neighbourhood of Franklin harbour is gneiss, and the adjoining hills are probably full of minerals

On the western side of the head of Spencer's gulf, the hills are of red sandstone, in strata nearly horizontal. In other countries this formation is associated with coal, which will most likely be found in this neighbourhood.

At Lipson cove, on the west coast of Spencer's gulf, the rocks observed by Colonel Robe, when governor of the colony, in December, 1846, consisted of gneiss and hornblende schist, nearly vertical, and having a due course north and south. At Port Lincoln, the Gambier islands, Althorpe island, and apparently the south-west extremity of · Yorke's peninsula, the governor found stratified limestone of recent formation, horizontal, and similar to that of Adelaide, resting immediately on granite, without the interposition of the transition or other secondary rocks.

The country to the south and east of Lakes Victoria and Albert, as far as Cape Bernoulli, consists of domes of sand, which are supposed to rest on a granitic reef or barrier, as granitic rocks are visible above the sea at Capes Morad and Bernoulli, and at other points on the coast. It is, therefore, presumed to be continuous, although the connexion is not at present sifies them in South Australia according to

visible.

Further south, the sand hills cease; no granite, igneous, or hard rock appears; the and mica. Rocks depending upon granite-

many of the lower hills. The rock forma- ject to periodical inundations, and strewed with cakes of calcareous tufa, some as large. and closely resembling a ship biscuit.

The hills around the plains are of limestone, as are also the rocks of the surrounding country. In the vicinity of Mounts Gambier and Schanck, for about twenty miles, the geological features change, from tertiary limestone and calcareous sandstone, to coral limestone, with numerous beds of chert, a siliceous rock containing the remains of marine animals and coral. Throughout this coral limestone and level tract there are deep holes, or wells, containing fresh water, one of which, of an oval form, measured eighty yards in diameter, the depth to the surface of the water, twenty-eight feet anda-half, and the depth of the water, 1031 feet, the colour of an intense indigo-blue. These wells are all in the immediate vicinity or within twelve miles of the volcanic mountains; and in the same neighbourhood are caverns containing the bones and teeth of animals of a larger size than any at present hving in Australia. Some are supposed to belong to gigantic kangaroos, others to the canine race.

The descriptions of Mounts Gambier and Schanck have been given in the topography At the base of Mount Schanck, to the southwest, there is a large accumulation of cellular basalt, which is bare, and presents a steep wall towards the plain. At Mount Gambier there is black and red lava, generally cellular; coral limestone is exhibited in the cliffs of the lake in the middle crater, and upon this there is a stratum of basalt; whilst on the upper parts of the mountain, or on the rims of the craters, there is volcanic tuff, containing fragments of lava.

MINERALOGY -The preceding details of the geological strata will serve to introduce a sketch of mmeralogical combination discovered in South Australia. Mr. Menge, who was the first person to direct attention to the mineral riches of the province, says that a rock in Australia is not confined to a compound of earthy substances, as is generally the case in Europe, but that it is often identified with metals, minerals, precious or ornamental stone, or with some earthy substance fit for lithurgical use. He thus clastheir order as receptacles of mineral wealth:

1. Granite—composed of quartz, felspar, coast-line is wider and less elevated, and porphyry, sienite, serpentine, and greenthere are numerous low swampy plains, sub- stone. Minerals depending upon quartzamethyst, chalcedony, chrysopras, and opal; ditto on felspar-Periklin, scapolithe, gawlerite, and topaz. Ditto on mica-talc, chlorite, plumbago, and ironrose. Minerals inhabiting the rock of granite—tourmaline (black and green), garnet, beryl or emerald, corundum, zircon. Minerals in combination with granite rock-usually (1) cobalt, with its associated metals, viz, bismuth, arsenic, silver, and antimony; (2) uranium, (3) tin. with its associated shelium or wolfram, molybdena, and zinc, (4) lead-with its associated silver and arsenic; (5) copperassociated with lead and copper.

Gneiss ranks second in order, and as it differs only from granite by its stratification (and in South Australia by the proportion of its constituent parts), similar metals and minerals are to be found as in granite, but the laminated structure leaves more room for them in gneiss. Where quartz predominates in gneiss, the rock attains considerable altitude. Where felspar is most abundant, a disintegration or decomposition takes place, and the metals, including the protoxides and peroxides of iron, are protruded on the surface; where mica is in excess, magnesia is produced, and by chemical combination indurated tale, usually called soapstone, appears The Australian soapstone differs from the kind usually found in Europe; it resists the disintegrating powers of the atmosphere, becomes hard in the fire, and takes a polish similar to cast silver, which it retains, not being subject to tarnish.

Mica Slate ranks third in South Australia, and is very extensively distributed; it consists of quartz and mica, and wherever the quartz is not compact, but granular, the rock is easily dissolved, and becomes sand The ores in this rock are chiefly ironmica, specular iron, and brown iron ores.

Primitive Limestone, fourth in order, but first in importance because of its metallic riches, when combined with clay slate, contains copper, lead, and zinc; iron is found in nests, veins, stocks, and caves. When blended with quartz, it forms an excellent millstone.

Hornstone (a compact quartz), fifth, often accompanies primitive limestone, or clay slate, when it is found to contain considerable quantities of copper ores. formation are found many ornamental stones or quartzose substances, such as chalcedony, cornehan, jasper, opal, and hydrophane: also the amphibolic substances-asbestos and grammatite.

Clay Slate, the sixth and most extensive formation in South Australia, abounds in metals, particularly in iron, lead, silver, copper, manganese, gold, and zinc. The ores are mostly indicated by its stratified quartz. The colour of this formation is usually grey, but varying to white and to blue slate. Where the quartz predominates, it changes into siliceous slate or touchstone; where the clay is in excess, alum slate appears

To the above general view of the rocks containing the metallic riches of South Australia, it may be useful to add a definition of some technical terms which it would have been scarcely possible to have avoided em-

ploving.

When speaking of minerals, miners distinguish the ores or lodes according to their situation in the metalliferous ranges; thus (1) strata, or stratified ores running parallel with the rock; (2) veins crossing rocks at different angles, (3) stocks filling vertical caves in the rocks; (4) reins and nests scattered in masses, (5) labyrinths in zigzag or curved lines; (6) chains in links and scattered, and (7) vaults, heaped up in horizontal caves within the rocks. Copper ores in this last-named position are usually found lying loose, or in distinct heaps, whilst the rock is dissolved around.

The mineral and geological specimens which have been discovered up to the year 1846, are thus classified, I give the list, as prepared by Mr. Burr, in evidence of the internal resources of the province:

IRON -Sulphurets.

Rapid Bay,—general in the Iron pyrites, crystallised in ranges, in limestone, quartz, cubes and uncrystallised hornstone, slates, and asso ciated with other metalli-

Montacute Copper Mine, and the metalliferous districts ın ıts neighbourhood, Rapid Bay, Encounter Bay,

ferous minerals

Iron pyrites, crystalhsed in pentagonal dodecahedrons

and lamellar, and granu-

Oxides.

lated

Mount Gawler Range, Barossa Range, Mount Lofty Specular iron ore, massive, Range, very general Near the Montacute Copper Brown homatite, radiated and fibrous

Rapid Bay, Mount Barker, near the Montacute, and various other places Very general.

Very general, from Cape Jer-vis to Black Rock Hill

Light River

Brown homatate, compact Bog iron ore, and other earthy oxides of iron

Magnetic iron ore, crystallised and massive, varieties. Sienite

Carbonate.

Rapid Bay, Barossa Range, Mount Lofty Range, and Carbonate of 1ron various other places

Phosphate.

Near Mount Rufus, and near Phosphate of iron, earthy Strathalbyn

682 MANGANESE-Oxides. Rapid Bay, Myponga, the Black oxide of manganese, Horseshoe, Onkaparinga fibrous, diverging Rapid Bay, Light River, &c, Rapid Bay, Barossa Range, Mount Bryant, &c, &c EARTHY MINERALS-Siliceous. Near Encounter Bay In veins, generally amongst the metalliferous strata Near the Montacute Copper Mine, Flaxman's Valley Very general among the metalliferous strata, the

faces Quartz vem cleanest specimens are from the neighbourhood of Mount Barker, the Barossa and Belyidere Ranges Belvidere Range Quartz vem, smoky Near the Montacute Copper

On the Reach, at Rivoli Bay, at Mount Gambier Barossa Range, Flaxman's Valley, twenty five miles north-east of Adelaide. Flaxman's Valley Flaxman's Valley

Belvidere Range Jasper opal and Belvidere Ranges Flaxman's Valley Flaxman's Valley, and near Mount Barker. Barossa Range Near the Kapunda Copper Mine

Belvidere Range. Barossa Range Belvidere Range, in the neighbourhood of Mount Barker

Flaxman's Valley.

About twenty miles northeast of Mount Barker. Belvidere Range. Wount Gambier Mount Gambier Belvidere Range, near Mount Barker, Flaxman's Valley, Encounter Bay, Strath-albyn, &c, &c Flaxman's Valley, Barossa

Range Lynedoch Valley, Flaxman's Valley

Flaxman's Valley

Flaxman's Valley Near Strathalbyn Belvidere Range

Near Mount Barker

of Mount Barker

Barossa Range. Belvidere Range. Black oxide of manganese, massive

Siliceous oxide of manganese

Quartz in dodecahedrons, with isosceles triangular Quartz in hexagonal prisms

with summits Quartz in minute hexagonal prisms with summits

Quartz crystallised, coloured Flint in nodules, black (not the chalk flint) Hornstone

Woodstone Opal, brown, blue, milk white, wood, green, mag-nesian, brimstone coloured, and other varioties, some with asbestos

Jasper, varieties Chalcedony, blue Chalcedony, botryoidal.

Chalcedony, red, with opal Chalcedony, with jasper Agate, red and blue straped,

Prehnite, or zeolite, mammillated Prehnite, crystallised. Garnet, red

and moss

Garnet, black (grenat noir)

Cinnamon stone Augite Coccolite Hornblende

Grammatite, or tremolite, in limestone and in dolomite Actynolite, green and brown, lamellar

Actynolite, green and brown, capillary Actynolite, white Actynolite, brown

Amianthus, or asbestos, flexible and common, occasionally traversing and woven through other minerals, as opal, hornstone spars, &c, &c

Asbestos, with chalcedony, and siliceous tuffa Flaxman's Valley, and east Rock wood.

Aluminous.

Fibrolite Sappare, or kvanite, flowery, foliated, white and green

River Gawler Flaxman's Valley South Adelaide Near Mount Barker

North Adelaide, 125 feet below the surface Gawler Plains Sources of the Angas Crystal Brook North Adelaide, eighty feet below the surface

Belvidere Range Near Mount Lofty Mount Lofty Range.

Barossa Range

line, &c Valley of the Nixon, near Schorl, acicular Encounter Bay

Encounter Bay

Barossa Range Near Rapid Bay, twenty five miles north east of Adelaide, and various places Valley of the Nixon

Barossa Range Barossa Range

Belvidere Range River Hutt, and twenty five miles north east of Ade-

Lynedoch Valley Twenty five miles north-east

of Adelaide Barossa Range

Mount Lofty Range Belvidere Range

River Gawler, twenty-five miles north east of Ade-laide, Valley of the Nixon,

Barossa Range
Barossa Range, Valley of Mica, black
the Nixon

Barossa Range Yankalılla

Mica, white, flowery

Tron mice White foliated mica, in large leaves

Felspar.

Mica.

Barossa Range East of Mount Barker. Felspar, flesh coloured East of Mount Barker Felspar, granular

ACIDIFEROUS, EARTHY MINERALS. Cliffs of the River Murray,

and at Brighton, near Adelarde Cliffs of the River Murray Occasionally in small quan-

tities, with ores of copper at the Kapunda Mine Rapid Bay, Barossa Range, Belvidere Range Barossa Range, Belvidere Range, Rapid Bay, near Mount Barker

North east of Adelaide, Rapid Bay Rapid Bay, Barossa Range

Rapid Bay, near Mount Bar ker, and ten miles northeast of Adelaide

Clay, yellow, red, and white Clay, white, indurated Clay, variegated, unctuous Clay, variegated, red, white, and blue Pipe clay, 1ed, white, and

pink Pipe clay, white 1 ipe-clay, white and pink Clay, yellow and green Clay, blue, with iron pyrites

Alum slate and alum stone Clay, green, indurated Alum slate

ALKALINE, EARTHY MINERALS-Schorl, or Tourma-

Schorl, in nine-sided prisms with summits Schorl, in prisms, with yellow Seven miles north-west of Schorl, black and green, in Mount Barker granute

granite Schorl, black and green, in granite Schorl, varieties.

Rubellite Beryl Epidote

Talc. Earthy talc Silver white foliated talc

Indurated white, red, and yellow talc Indurated red talc

Green, foliated, indurated talc Glanular tale, nacrite Nacrate

Felspar, foliated, glassy, and flesh coloured

Sulphate of lime (gypsum) foliated

Sulphate of lime, in the form of shells Fluate of lime, in cubes, with the edges and angles replaced Dolomite

Bitter spar

Pearl spar.

Carara marble Marble, white, fine

white and grey

Ten miles north-east of Ade- Marble, white and pink, fine Near Mount Arden Porphyry, red Barossa Range Porphyry, green Mount Barker, Rapid Bay. Mount Barker, Rapid Bay Marble, white and grey Gneiss, Mica Slate, Hornblende Slate, &c. &c. Marble, grey Calcareous tuffa, cellular Lynedoch Valley, east of Gneiss.

Mount Barker about six
miles, Valley of the Nixon,
near Encounter Bay, near Flinders' Range, Barossa Range, Mount Lofty Range, Range, very general in creeks from the ranges where there is limestone Strathalbyn, River Depot Creek, near Mount Calcareous tuffa, coralloidal rens, about twelve miles north-east of Adelaide, Barossa Range, River Gawler, near Moorooro, North and South Rhines, Ârde Rapid Bay, Crystal Brook On plains at Lake Hawdon Calcareous tuffa, compact, and Rivoli Bay On plains near Lake Haw-Calcareous tuffa, in spherical and other localities, prinballs don cipally in those portions of On walls of wells near Calcareous tuffa the range which drain eastward towards the Mur-Mount Gambier Near Rapid Bay, &c , &c Barossa Range, Mount Bar-Calcareous stalactates ray River Siliceous tuffa To the east and south-east Gness, passing into sandof Mount Barker stone Wavellite, stellated River Gawler Near Mount Arden Mica slate, red and sandy River Bremer, near Mount Barker, Barossa Range, Yankalilla, Sources of the Mica slate ACIDIFEROUS, ALKALINE MINERALS Glauber salts, or sulphate of Crystal Brook. soda, efflorescent Angas, generally distri-In lakes near Lake Victoria Chloride of soda buted, especially in those Cliffs of the River Murray Nitrate of potassa, effloresparts of the range which drain to the eastward to-wards the Murray River cent ACIDIFEROUS, ALKALINE, EARTHY MINERALS. Valley of the Nixon, twelve Chlorite slate Mount Lofty Range, Barossa Carbonate of magnesia. miles north-east of Ade-Range laide, vicinity of Mount Gorge of the River Torrens, Alum, mammillated and Barker ranges near Mount Barefflorescent Barossa Range, Rapid Bay, Hornblende slate ker, &c about six miles south-east of Mount Barker COMBUSTIBLE OR INFLAMMABLE MINERALS Near the Montacute copper Sulphur, native, enclosed in Argillaceous, Stratified Rocks. vem quartz with iron mine Near Encounter Bay, near Grauwacke slate Mount Lofty, near Mount pyrites Graphite, or plumbago Belvidere Range, and about Arden, ten miles east of Mount Brown, Flinders twenty-three miles north-east of Adelaide Range, Mount Lofty Range, Brownhill Creek Cliffs of the River Murray Bitumen Willunga, near the Monta-cute Copper Mine, Rapid Bay, west of Mount Bar-ker five miles, Cape Jervis, Clay slates, various, some GEOLOGICAL SPECIMENS—Granite, Granitic Rocks, good roofing slates and Igneous Rocks. Valley of the Nixon, near Granite, coarse red Encounter Bay, Cap Mo-rard de Galles Granite Kapunda Copper Mine, Horse-shoe, Onkaparinga, and country between that rock near the head of the rock near the head of the Coorong Cape Jaffa Reef, Yankalila, near Mount Barker, in the Murray Scrub, at various places, protruding through the tertiary strata ane Javyse Yankalila and Willunga, generally on the western slopes of the range
flinders' Range, Mount Flinty slate
Lofty Range, &c Sandstones and Siliceous Rocks Cape Jervis, Yankalılla, gra-nite rock, near the head of Granite, fine red At the base of Flinders' Quartz rock Range, to the westward, near Crystal Rock Between Rocky River and Crystal Brook the Coorong, near Mount Barker, Cap Morard de Galles, Rapid Bay Cap Morard de Galles, in no-Sandstone, fine white, gra-Granite, fine grey dules, embedded in coarse About twelve miles north-Sandstone, white, compact. east of Adelaide red granite River Torrens, about twenty-Granite, graphic (binary) About four miles south-east Sandstone, red, micaceous of Mount Lofty five miles north-east of Barossa Adelaide Range, near the Sandstone, slaty grey North Rhine River Torrens, about twenty-Granite, coarse white, with five miles north-east of Adelaide, Barossa Range Occur very generally in the ranges, they are frequently schorl Sandstones, various Granite, fine white, with granular and ferruginous There are quartzose sand-stones, which are hard and River Torrens, about twentyfive miles north-east of Adelaide schorl good for buildings, some About three miles north of Granite, white (binary) Cape Jervis
Onkaparinga River, north-west of Mount Barker, of the sandstones pass, by almost imperceptible gra-Granite, binary, with black and green schorl dations, into slate Barossa Range Calcareous Rocks. North of Mount Barker Granite, fine and coarse, binary, white. Barossa Range, Rapid Bay White marble, similar to Flaxman's Valley, near En-counter Bay, east of Mount Sienite Carara Near Mount Barker White marble and veined Barker.

About twelve miles north- White marble, and veined east of Adelaide.

River Hutt, Barossa Range, near Mount Barker, Rapid

Rapid Bay

Rapid Bay, near Mount Bar-

Near Mount Arden.

Near Mount Gambier Near Mount Gambier and Mount Schanck Plains near Cape Jaffa.

Salt Creek

Over the whole of the country described as tertiary and recent

Dunes of sand on the Coorong

flags. The chief ores of some of the principal mines in South Australia, are stated to be as follows .

Kapunda Copper Mine .- The best varieties of sulphurets, as vitieous copper or copper glance, purple copper ore, grey copper ore, the black sulphuret of copper, and the blue and green carbonate of copper, which are generally mixed with earthy matter These have formed the principal ores which have been exported, but there has also been a considerable quantity of the muriate of copper, and native copper, crystallised in octahedrons.

Burra-Burra Copper Mine - The protoxide of copper, or ruby copper ore, and carbonate of copper The protoxide of copper is generally in veins, of greater or less thickness, traversing the oxide of iron , some of the mixed specimens from the Burra-Burra mine are exceedingly beautiful. A rich ferruginous, red oxide of copper has also been procured in con-The sulphurets of copper are siderable quantities. scarce

Montacute Copper Mine -Copper pyrites, generally variegated. Carbonate of copper is also met with, and some of the finest specimens of this ore have been from the Montacute mine

Rapid Bay - Ores of copper similar to those of the Montacute mine

Mount Barker Copper Mine .- Ores a red oxide, containing a small portion of iron and silica, and the blue and green carbonate of copper, generally

Copper Mine about twenty miles north-east of Mount Barker -A good kind of the sulphuret of copper, variegated.

Wakefield Copper Mine .- The carbonate of copper,

with iron ore, and sulphate of barytes.

Glen Osmond Lead Mines — The sulphurets, or galena, crystallised in cubes, and granular, and the

corneous lead ore, a murio-carbonate of lead Rapid Bay —Galena in cubes, and blue lead ore

pulverulent.

Yorke Peninsula, between Gulfs St. Vincent and Spencer, is said to contain abunbonate of copper have been recently discovered.

white and pink White crystalline limestone, coarse-grained

White and grey slaty lime-Grey limestone, compact

Variegated compact limestone Compact limestone Coral limestone.

Compact limestone, with fosremains of univalve shells

Arenaceous limestone, with fossil remains of shells, partly bivalve Fossil limestone

Calcareous sandstone.

The length and breadth of some of the lodes of copper in South Australia, surpass anything of the kind, even in South America; at the celebrated Burra-Burra mines, in particular (see map), the metal "crops out" of the surface in such quantities, that hundreds of tons may be removed without sinking a shaft: it resembles quarrying in metal. rather than mining. In one place, where a shaft has been sunk, it seems like working in a bed of solid copper.

Lead, in the same manner, especially at the Wheal-Watkins mine, has been found cropping" through the surface; the ore of this mine sent to England, yielded seventyfive per cent. of lead, and about 30s. of silver to the ton of ore, which may be raised

at the mine at less than 20s per ton.

Several other minerals have been found, as well as copper and lead Native gold, containing a small portion of silver, exists about half a mile north of the Montacute copper mine, ten miles north-east of Adelaide It is also said to be obtainable in several other places. I have seen some fine grains of gold interspersed with black sand, said to have been found in the bed of the Torrens river. Further details will be given, when examining the staple products of the

THE SOIL, of course, varies throughout a wide extent of country, that on which the city of Adelaide is built is remarkable for containing in abundance the elements necessary for vegetable production. In North Adelaide every kind of English and tropical fruit may be found growing in perfection; the banana and the gooseberry side by side The produce of the fruit-trees is no less abundant in quantity than rich in flavour. yet the appearance of the soil would scarcely indicate such a favourable return to the industry of man.

A portion of the surface soil, and of the subsoil, taken from the garden (which had not been manured) of Mr. George Stephenson, in North Adelaide, was brought to England by Mr. Dutton, and submitted to analysis by Dr. Ure (23rd of February, 1846), when the following results were produced: - Surface soil-Sulphate of lime, or gypsum, 75; phosphate of lime, 2; moisture, 2; combustible vegetable matter, 2, oxide and phosphate of dance of minerals; and in the district of iron, 6; fixed alkaline salts, containing some Franklin harbour, 150 miles north of Port of the valuable potash salt (these are mu-Lincoln, varieties of the blue and green car- riates of soda and potash), 4.5; silica and a little alumina, 85; a trace of magnesia; = 100. Subsoil - Sulphate of lime, 53.33;

PRODUCTIVE SOIL OF SOUTH AUSTRALIA.

phosphate of lime, 2; oxide and phosphate brious; and, as the soil becomes more cul-This distinguished chemist says, "I have devoted much time and pains to the analysis of the soils; they are the most singular I have ever examined, or even heard of: they must be very fertile, as they contain all the elements necessary for the nourishment of plants."

Dr. Ure examined samples of wheat and barley from Adelaide, and determined their value by the specific gravity of the corn, which he compared with English prize wheat, thus: - wheat from South Australia, specific gravity, 1.400; English prize wheat, 1844:— 1.340; barley of Adelaide, 1.285. The nutritive quality of the soil of South Australia, as evinced in the growth of grain, is greater than that of England.

The extent of limestone formation in the colony would indicate an abundance of arable land; while the slate formation furnishes a great variety of pastoral districts. It is probable that, in future years, the amount of cultivable soil will be largely increased in Australia, by reason of diminished terrestrial heat, owing to the more rapid disintegration of calcareous rocks, cooling in the surface of the earth, a clearing of the indigenous forests, less immediate absorption of the periodical rains, and a greater retention of surface-water, indispensable in an Australian climate for pastoral and agricultural pursuits.

CLIMATE. - South Australia, from its latitudinal position, absence of snow-clad mountains, and, as regards Adelaide, from its inland situation, has a higher temperature than Melbourne, and may be said to range more nearly with Sydney, New South Wales, with Perth in Western Australia, and with Palestine in Asia Minor. It is very salu- Adelaide:-

of iron, 5.50; moisture expelled at red heat, tivated, will probably possess a more equable 15; fixed alkaline salts, 3.50; silica, with a thermometrical range. The southerly winds, little alumina, 20.67; a trace of magnesia; which prevail for the greater part of the year, arrive cool and refreshing from the Pacific, and have an exhilarating influence. During winter (June, July, and August) hoarfrosts occur at Adelaide. The atmosphere of South Australia is an excellent remedial agent for alleviating the diseases of Europe or of Asia.

> The general temperature of Adelaide is somewhat higher than that of Perth, the capital of Swan River, as shown by the following abstract of observations of the thermometer of Fahrenheit, in the year

Months		Adelaide		Per	rth	Difference		
		Max	Min	Max	Mın.	Max	Mm	
January .		101	66	97	52	4	14	
February.		103 1	64	100	67	31	17	
March		95	64	89	48	6	16	
April		86	53	87	35	1	18	
May		76	50	72	37	4	13	
June		68	48	65	30	3	18	
July		604	48	61	31	0 }	17	
August .		68	48	58	. 31	10	17	
September		704	49	68	36	41	13	
October .		963	50	78	40	184	10	
November		93 1	53	92	40	1 🖁	13	
December		1031	53	96	41	7출	12	

The mean quantity of rain falling, throughout the year, in the following places, 18-in Adelaide, 20 inches; Hobart Town, 19; London, 21; Manchester, 36; Liverpool, 34; Launceston, 40; Kendal, 53; Dumfries, 36; Glasgow, 21; Arracan, in July and August, 103, Tropics generally, 115, Bombay, 106; West of England, 57. Annual variation in London, 75 per cent.; Adelaide, 38.

The annexed meteorological register is for

Month.	Highest	Lewest	Mean Temperat			Winds		
ga ottuna	Temperature			Days	Inches	Hot	Warm	Cool
November, 1839	73° 82° 75°	58° 60° 53°	68°	14	3 330	0	10	23
December	94 106 95	62 65 52	82	5	.345	1	14	21
January, 1840	92 103 87	65 74 66	87	3	.335	2	5	26
February	80 94 79	70 68 64	82	5	2 010	3	3	20
March	71 100 88	66 17 64	71	7	.445	2	13	27
April	74 91 77	53 62 57	75	10	1.119	0	17	25
May	60 81 63	50 61 55	69	8	1 597	0	25	13
June	54 69 55	48 58 51	60	11	3 247	9	24	11
July	50 96 55	48 58 51	62	8	1 900	0	25	10
August	63 78 67	52 54 48	62	16	3 040	0	24	11
September	70 83 67	49 54 52	65	16	4 540	0	22	11
October	76 84 83	60 56 82	79	6	1.900	1	21	16

The following is an abstract of the raingauge kept in Adelaide for the seven years ending December 31, 1846:—

Average Days Maxı-Mini-English Months mum mum Average WINTER -3 58 0 25 185 May 11 June 11 3 70 172 183 July 14 3 66 086 2 52 1 45 16 4 77 1 66 August. September 11 4 64 044 2 19 October 10 274 094 207 SUMMER -November 8 3 31 0 02 2 40 \$ 82 0.35 2 43 December 5 January 4 0 45 0 21 1 48 0 35 February 4 201 0 75 5 1.00 0.441 44 March . 3 58 0.38 1 79 April .

The following abstract of a table, carefully compiled from the meteorological journal in the land-office, for the years 1844, 1845, and 1846, by permission of the government authorities, and extended back to 1839 by private observations, will exhibit the manner in which the warm and cold winds are distributed on this coast during the summer and winter months:—

Months	Hot	Warm	Cool
SUWMER — November . Deccembei January . February . March . April WINTER — May . June . July August . September .	1 2 3 1 2 2	9 8 4 3 6 11 20 20 22 23 20	21 22 26 23 24 14 9 10 9
October	1	13	17

The salubrity of the province is shewn in the returns of births and deaths.

Return of Births which have taken place

	Year	Registered	Unregistered	Total
•	1840	416	30	446
	1841	544	30	574
	1842	641	60	701
	1843	650	60	710
	18 44	671	60	731
	1845	708	100	808
	1846	937	200	1.137
	1847	994	200	1,194
	1848			
	1849	l —		
	1850		-	
		1	1 1	

Note -The unregistered return is below the official estimate

Return of Births and Deaths to Inhabitants

Year	Inhabitants to One Death	Inhabitants to One Birth
1840	398	32 7
1841	66 5	26 5
1842	76 5	23 0
1843	111 3	24 5
18 44	1398	26 0
1845	100 3	27 6
1846	80 0	24 6
1847	63 9	25 9
1848		
1849		
1850	_	-

Comparison of Births and Deaths to Inhabitants in other Countries

Countries	Inhabitants to One Death	Inhabitants to One Birth
England .	46 4	35 2
Russia	33 0	25 5
France .	33 0	27 0
Netherlands	27 5	21 0
Italy	24 4	30 6

We have no return of the maladies treated in the Government Hospital at Adelaide, or of their proportionate mortality, the following shews the number of patients treated in the Government Hospital during the years 1844, 1845, 1846, and 1847—

Year	Admitted on payment of Fees	Admitted without Fees	D18 charged	Died
1844 1845 1846 1847	4 15 13 30	34 50 64 109	30 53 61 120	12 16 15

The subjoined table is an abstract of the register of interments at Adelaide, from 1844 to 1847 —

	1844				184	5 1846		6		1847	7	
Month	Ad	Adult E		Adult Children		Ad	Adult Hard		Adult H			
	M	F	Chi	M	F	CP	M	F	S	M	ŀ	Chi
January	2	2	8	0	2	16	1	1	13	4	5	36
Feb	4	2	6	3	3	21	7	2	40	11	7	45
March	1	1	7	2	0	26	3	2	28	5	6	27
Aprıl	1	2	9	3	4	12	6	6	19	8	5	21
May	1	2	11	3	1	9	9	2 3	26	11	3	23
June	2	3	6	9	1	7	9		14	4	6	15
July	1	2	3	5	3	6	1	4	10	9	6	9
August	4	3	6	2	3	8	9	1	7	7	1	22
Sept	0	2	3	2	4	4	3	2	13	15	2	29
October	4	3	6	4	4	8	8	3	15	5	7	20
Nov	4	1	8	7	1	7	4	4	26	11	2	25
Dec .	3	2	11	11	6	16	7	4	36	9	9	25
Total	27	25	84	51	22	140	67	34	247	99	59	347

Note — I he population in these years was—1844, 18,999 1845, 22,390, 1846, 28,000, 1847, 31 000 The two last years are an approximation

CHAPTER III.

POPULATION. CLASSIFIED AND BY DISTRICTS—RELIGION—EDUCATION—NEWSPAPER PRESS—CRIME—LAWS—GOVERNMENT—NEW CONSTITUTION— LIST OF LIEUTENANT-GOVERNORS.

the province we are now examining. Fifteen years ago there was not an Englishman in South Australia; now (July, 1850) there are about 50,000 happy, prosperous, and loyal subjects of Queen Victoria in the settled portions of the colony; of whom about 5,000 are Germans, and the remainder immigrants from England, Wales, Scotland, and Ireland, and their descendants.

On the 9th of November, 1836, the first vessel arrived, with emigrants from England, at Glenelg, between five and six miles distant from the site of the present city of Adelaide. The subsequent augmentation of E the population of the colony is thus shown -

Year	Males	Females	Total	Aborigines, estimated
1837	_	_	200	
1838			5,000	1,600
1839		_	9,000	1,600
1840		_	10,000	1,600
1841	_		14,600	1,600
1843			16,516	1,600
1844	9,526	7,670	17,366	1,600
1845	12,388	9,371	21,759	1,600
1846	14,711	11,182	25,893	1,600
1847	17,531	13,622	31,153	3,680
1848	21,527	17,139	38,666	3,730
1849		<u> </u>	_	<u> </u>

According to the government census of 1844, the ages and sex of the population in the colony was-

Age	Males	Females	Total
Under 2 years	 890	834	1,724
2 to 7	 1,459	1,434	2,893
7 to 14 ,,	 1,322	124	1,446
14 to 21 ,,	 922	866	1,788
21 to 45	4,432	2,996	7,428
45 to 60 ,,	 457	281	738
60 and upwards	 44	18	62

Of married—males, 3,026; females, 3,032. The classification by occupations showedprofessional persons, landed proprietors, merchants, and bankers, 990; shopkeepers or retailers, 319; mechanics and artificers, 986; shepherds, &c., 763; stockmen in care of cattle, 298; gardeners and farm servants, 1,838; domestic servants, 742; others, not

The colonizing character of the British race included in the foregoing, 11,260. Classed was never more strikingly manifest than in by religion—Church of England, 9,418; Church of Scotland, 1,691; Wesleyans, 1,666; other Protestant dissenters, 3,309; Roman catholics, 1,055; Jews, 25; Mahomedans The number of houses and Pagans, 32. was—of stone or brick, 1,346; wood, 1,142; other materials, 903 = 3.391.

> Population of Adelaide and the neighbourhood in 1844 and 1846.

	Males	Females	Total
Port Adelaide	717	623	1,340
North Adelaide	840	800	1,640
South Adelaide	2,299	2.138	4.437
South-west of Adelaide	880	813	1,693
South-east of Adelaide	535	478	1,013
East and North east of Adelaide	362	314	676
Total in 1844	5,633	5,166	10,799
" ın 1846	6,826	6,214	13,040

Abstract of the Census in April, 1846

	Districts	Area m sq miles	Males	Females	Total
	Milner Spe Survey	600*	706	493	1,194
	N of Gawler Town	2,300*	348	110	458
	WakefieldandHutt	8,500*	631	131	762
	Moorundie	100*	58	8	66
	Wellington	200*	93	12	105
	Mount Crawford	400*	320	210	530
	Little Para River	210	462	369	831
	Port Adelaide .	48	816	713	1,529
	North Adelaide	27	929	914	1,843
	South Adelaide	4	2,902	2,668	5,570
	S W. of Adelaide	45	965	892	1,857
	SE of Adelaide	31	688	584	1.272
	E and N E of Adel	45	526	443	969
	Sturtand Onkapa-	68	212	176	388
	O'HalloranHill.&c	50	392	320	712
	S of Onkaparinga	67	334	248	582
	Sources of ditto .	210*	780	672	1,452
	Meadows Special Survey	162*	301	243	544
	Finniss and Angas Special Survey	247*	308	167	475
	Encounter Bay, &c	240	158	107	265
•	Port Lincoln .	•	85	47	132
	Kangaroo Island	1,500*	_	-	70
	N of Rivoli Bay	2,700*	230	21	251
	S. of Rivoli Bay	8,400	248	15	263
	Yankallılla, &c.	110	91	47	138
	Cape Jervis .	200	92	40	132
Ē	Total	26,464	12,670	9,650	22,390

Note -- Marked thus (*) are uncertain, boundaries not strictly defined.

NUMBER OF EACH AGE.—Males.—Under two years of age, 1,019; two and under seven, 2,143, seven and under fourteen, 1,606; fourteen and under twentyone, 1.088, twenty-one and under forty-five, 6.111, forty-five and under sixty, 629, sixty and upwards, 74. Females.-Under two years of age, 953, two and under seven, 2,101; seven and under fourteen, 1,460; fourteen and under twenty-one, 981; twentyone and under forty-five, 3,696; forty-five and under sixty, 410, sixty and upwards, 49.

MARRIED OR SINGLE.—Males -Married, 3,847; single, 8,823. Females.—Married, 3,811, single, 5,839. RELIGION -Church of England, 11,945, church of Scotland, 1,958; Lutheran church, 1,524; Wesleyan methodists, 2,246; other protestant dissenters, 2,888; Roman catholics, 1,649, Jews, 58; Mahome-

dans or Pagans, 52.

OCCUPATION —Land proprietors, merchants, bankers, and stockholders, 1,152; clerks and overseers to the above, 162, professional persons, 109, clerks and assistants to the above, 35; manufacturers, brewers, millers, 82, clerks and assistants to the above, 46,

shopkeepers and other retail dealers, 338; clerks and assistants to the above, 160, brickmakers, 77; bricklayers, 83; smiths, 152; carpenters and joiners, 362, masons, 92, shoemakers, 225; cabinetmakers, 24, plasterers, 38, harness-makers, 19, tailors, 62; tanners, 19, miners, 269, sawyers and splitters, 240, shepherds and others in charge of sheep, 1,120; stockmen and others in charge of cattle, 215, carriers and their assistants, 134; gardeners, farm-servants, and persons employed in agriculture, 1,492, mariners and fishermen, 85, domestic servants, 818, labourers not included in the above definitions, 726; all other persons not included in the above, 13,993

Houses -Stone or brick, 1,715; wood, 1,272;

other materials or tents, 1,189 = 4,176.

On the 1st of January, 1848, the population of the colony was about 38,666 souls: on the 1st of January, 1849, it was 45,907, it is now estimated at not less than 50,000.

The following is an analysis of the increase since the commencement of 1845 ·--

Description of Increase	1845	1846	1847	1848
Immigrants whose passage was defrayed from the land fund Excess of immigrants arriving at their own cost, over emigrants from the	172	1,469	3,257	6,622
Province Province	2,118	2,088	1,504	} 5,522
Province	470	577	499	891
Total	2,760	4,134	5,260	7,513

The following is a comparative return of the number of births, marriages, and deaths

Burths.

Sex	1844	1845	1846	1847	1848
Males Females	354 317	380 328	483 454	544 450	=
Totals	671	708	937	994	1,239

Marriages.

Solemnized	1844	1845	1846.	1847	1848
Church of England	57	77	139	218	
Church of Scotland	21	77 29	21	20	_
Roman Catholic Chapel	10	10	17	45. 22 23	-
German Lutheran Church	6	2	17	22	_
Congregational Chapel	11	9	13	23	-
Methodist Chapel .	2	11	10	7	l —
Primitive Methodist Chapel	-		2	2	
By Dep. Registrar, Adelaide	1	_	_	-	_
. Port Lincoln		3	- 1	-	_
" Missionaries		_	-	9	_
Of the Jewish Religion .	-	1	_	1	_
Totals	108	141	219	347	320

Deaths.

Age	1844	1845	1846	1847	1848
7 Years and under From 7 to 14 years "14 to 21 " "21 to 30 " "30 to 40 " "40 to 50 " "50 to 60 " "60 to 70 " "70 to 83 "	81 4 4 17 20 6 5 2	147 8 6 19 28 22 3 3 2	244 15 6 19 31 26 12 5	317 20 16 39 53 32 12 4 2	
Total	140	238	360	495	510

The proportion of male to female deaths is thus shewn -

Sex	1844	1845	1846	1847	1848
Males . Females	75 63	143 95	208 152	301 194	=
Total	138	238	360	495	

The preceding returns merely show the number of births, marriages, and deaths actually registered in the province; there is, at present, no satisfactory means of estimating the number of those unregistered

Religion —It is gratifying to observe that from the very foundation of South Australia as a colony, a right appreciation has been evinced of the value of the ordinances of our holy religion, the first emigrants were accompanied by a minister of the gospel, and a church (in frame) for the celebration of religious worship, was forwarded from England The late Rev. C.B Howard, colonial chaplain, arrived in the colony, with Governor Hindmarsh, in December, 1836. His ministrations were gladly accepted, his person much respected, and to this worthy disciple of the cross we owe the foundation of the church of Christ in South Australia, which is now the seat of an episcopate of the church of England and of the church of Rome. church of England bishopric was endowed m 1847 by one of the munificent grants

dett Coutts, a lady whose name cannot be of his country. mentioned without adding the passing tribute

prompted by the practical piety of Miss Bur- ject really interested in the abiding welfare

The relative numbers and position of the of respect due to her from every British sub- different denominations is thus shown :-

Return of the Number and Description of Places of Worship in South Australia, which specifies the locality, amount of accommodation, and average congregation of each.

Denomination	Ade- laide	Port Adelaide	Villages near Adelaide	Willunga District	Encounter Bay	Gawler Town	Koo- ringa	Mount Barker	Totals in 1847.
Church of England ·									
Places of worship .	2	1	2	_	-	1		3	9
Adapted to contain .	1,050	200	310			260	-	330	2,150
Average congregation	750	120	160			80		200	1,310
Church of Scotland:			l		1 1				1
Places of worship .	2	=	l —		- 1			_	2
Adapted to contain .	750	_	_		i I				750
Average congregation	200		l —	_				_	200
Dissenting Chapels.									1
Places of worship .	9	1	16	3	1	4	1	4	39
Adapted to contain .	1,950	100	1,640	350	100	1,060	240	440	5,850
Average congregation	1,230	80	660	145	30	790	240	220	3,395
Society of Friends			1		1 1		1	1	1
Places of worship .	1	=		_			_		1
Adapted to contain .	100							_	100
Average congregation	12		l —		-		_	_	12
Roman Catholics		1	l				İ	ļ	1
Places of worship .	1			1					2
Adapted to contain .	700	=	-	150	-		_	_	850
Average congregation	530	-	-	50		-	—	-	580

Since the foregoing return was made, several other temples dedicated to the worship of the one true and living God have been erected, and others are in progress; the structures are neat, and the pews, &c. Due provision has formed of cedar-wood. therefore been made by every class of Christians, among whom entire harmony prevails, much to the benefit of practical Christianity, and its essential attributes of charity, peace, and good-will to all Public worship is celebrated twice on Sunday, the religious festivals of the year are kept as in England, and nearly every church and chapel has a Sunday-school attached

The state of the religious denominations in 1848, irrespective of the church of England, is thus shewn:--

The Presbyterians are divided into the Scotch Church and the Scotch Secession (voluntary) Church.

The Independents have five chapels and ministers, and five Sunday schools, consisting of about 600 children.

The Wesleyan Methodists have twelve chapels, also schools and branch societies in many places throughout the province. The out-stations are visited from time to time by ordained ministers, who are assisted in their tenance of their faith. arduous labours by thirty local preachers, and by the employment of this lay agency facili- their native land chiefly on account of the

ties are afforded for supplying the wants of a scattered community.

The Primitive Methodists have five chapels. about 220 scholars in their Sunday schools, and several excellent local preachers, superintended by an exemplary itinerant minister.

The Baptists and "Immersed Believers," two chapels; the Christian Brethren, two chapels, the Union denomination, five chapels; the New Church or Swedenborgians, one chapel, and the Jews a Synagogue.

The Roman Catholics have five chapels, and their church is confided to the superintendence of a suffragan bishop under the metropolitan hierarchy of Sydney, New South Considerable sums have been subscribed towards the erection of a cathedral at Adelaide; and at a public meeting called by their bishop the Roman catholics unanimously resolved to forego any further participation in the support or assistance provided by an act of the colonial legislature, deeming it inexpedient and incompatible with Christian liberty to comply with the stipulations appended to the grant. The indefatigable bishop and ministers of the Roman catholic church are very zealous in their efforts for education, and in the main-

The German immigrants who abandoned

children regularly to the same, from the exceeding £200 per annum. "fatherland."

eight chapels: making, in the whole, seventy- province. six places of worship in this still infant Roman catholics known.

the building of churches and chapels for of about £1,000 per annum. Among other Christian worship, and to provide for the scholastic institutions now in existence, there maintenance of ministers of the Christian is now at Adelaide a well-conducted gram religion. This ordinance came into opera- mar-school, with 300 pupils, chiefly of the tion 1st April, 1848, and was to continue to labouring classes, for whom a commodious 1st April, 1850. Up to June, 1849, the school-house has been erected by the liberal church of England had received, under the subscriptions of a few benevolent persons. provisions of this ordinance, in aid of erec- On 24th May, 1849, the bishop of Adelaide tions, £1,325; in aid of clergy stipends, laid the foundation stone of a church of in all, for ecclesiastical buildings and sti-granted 111 acres of land, and towards pends, £2,406. The aid is issued to the which Mr. William Allen, of Buckland-park, extent of £50, in cases where the popu- Adelaide, a large proprietor in the Burralation being equal to fifty persons, a sum Burra Mining Company, gave the munificent provided an equal or greater amount of pri- for its government. The holy scriptures are

religious persecutions to which they were vate contribution shall have been paid up subjected, and who belong, for the greater and deposited, or secured to the satisfaction part, to the evangelical Lutheran church, of the governor and executive council. The have places of worship and pastors for their aid to the stipend of the minister is fixed at settlements of Klemzig, Hahndorf, Langmeil, rates having reference to the number of Lobenthal, and Bethany. Each place of sittings (one-fourth part being free of any worship has a school attached, and the mem- charge), rented and paid for in any church bers of the church are required to send their or chapel; the stipend, however, in no case sixth to the fourteenth year of their age. Australian Church Society, in connexion with There are three or four German pastors in the church of England, has an income of the colony; indeed each body of emigrants about £500 a-year arising from donations is accompanied by a minister from their and subscriptions; and its objects are the assisting in erecting churches, and maintain-In June, 1849, the services of the ingreligious worship and Christian education church of England were celebrated in twenty in the metropolis and in the rural districts places; of the church of Scotland in four; of of the colony. The Australian Mining Comthe Roman catholic in three; of the society pany of London have built a chapel and of Friends in one; and by the other school-house at their mines; and, generally denominations of Christians (of whom the speaking, there is a deep feeling of piety Wesleyans are the most numerous), in forty- manifest among all classes throughout the

Education.—Where the responsibilities colony. The government have granted 284 of the Christian religion are felt by the acres of land for the sites of churches, legislature, the duty of imparting sound chapels, cemeteries, glebes, and schools, on instruction will not be neglected; neither is fourteen applications from the church of it so in South Australia. An ordinance of England, two from the church of Scotland, the local government (No. 2, of 1847), for two from the Wesleyans, and four from the the furtherance of education, grants to Since the foundation of schoolmasters an allowance, in aid of their the colony, the local government has contri- emoluments, of £20 per annum for the first buted £2,157 towards the erection of church twenty scholars, and £1 per annum for every of England edifices, and private individuals, additional scholar, beyond twenty, at school; The amount of the several sums the total not to exceed £40 to each school subscribed by other denominations is not in one year. When this ordinance came into operation on the 31st March, 1849, An ordinance (No. 10, of 1847), was thirty-three schoolmasters, already in the passed by the local government, to promote field, became immediate claimants for a sum £464: church of Scotland, £300 and £68: England collegiate school at St. Peter's, Wesleyan church, £94 and £153: making Adelaide, for which the local government not less than £50 has been raised by private donation of £2,700. It is intended that contributions for a church, chapel, or minis- this collegiate school shall eventually merge ter's dwelling; and the issue may be in- into a college, and accordingly, excellent creased to any sum not exceeding £150, statutes and regulations have been laid down

to be taught in the original tongue, and the of his office, and carefully collected various principles of the Christian religion carefully To this most necessary knowinculcated. ledge is to be added instruction in any language, art, branch of science, or literature, which shall, from time to time, be deemed by the visitor and governors of the school important to constitute a sound and liberal education. The property and management of the collegiate school is vested in a council of fifteen governors, of whom not less than three, nor more than five, shall be clergymen of the church of England. Every lay governor, on accepting office, must sign a declaration that he is a member of the church of England, and that he considers the thirty-nine articles of the Book of Common Prayer to be agreeable to the revealed The bishop of Adelaide, for Word of God. the time being, shall be the visitor, and have power, at any time, to enter the school, examine and instruct the scholars, inspect the accounts and general management of the institution, correct abuses, and prevent the adoption of any bye-laws that might contravene the fundamental principles of the school, or frustrate the intentions of the original founders The decision of the visitor, on any disagreements among the governors, shall be final. The head master must have graduated in arts or civil law in one of the universities of the United Kingdom, and his appointment rests with the governors.

Education is extending very generally throughout the province. In 1849, there were eighty-one day-schools, attended by 2,900 children, and forty-five Sunday-schools, attended by 2,500 children, in South Australia. There is also at Adelaide a school for the instruction of the children of the aborigines, where, in 1849, there were forty male and eighteen female scholars, who cost the local government £10 9s. 7½d each, per annum, for education, food, and clothing The following is a comparative return of Sunday and other schools in the province of South Australia, and of the average number of scholars attending them .-

Schools and Scholars	1844	1845	1846	1847	1848				
Scholars, European male " females " Native male " female .	870	1,397	1,402	1,987	2,933				
	856	1,272	1,210	1,910	2,469				
	85	74	76	100	40				
	67	58	62	56	18				
Total Scholars	1,878	2,801	2,750	4,053	5,460				
Number of Schools .	45	81	68	86	127				

Mr. Mundy, late the secretary of South Australia, who most ably fulfilled the duties one in number is 4d., and the extreme dis-

statistical returns, says of this document-"The information contained in this return has been obtained from private sources, not from authentic official records, and its accuracy cannot, therefore, be confidently relied upon."

THE PRESS of South Australia dates its origin previous even to the foundation of the colony. On the eve of the departure of the governor and emigrants from England, the first number of the South Australian Gazette was printed and published in London, on the 18th June, 1836. The second number of the South Australian Gazette was issued at Adelaide on the 3rd of June, 1837. Other newspapers soon started into existence, and there were subsequently issued a Government Gazette, Southern Australian, Adelaide Observer, Adelaide Times, a mining journal, A well conducted South Australian Magazine was issued monthly, and the two South Australian Almanacks, which have been published annually for several years, are a credit to the colony, for the valuable mass of facts which they contain, and the moderate tone in which their able digests are written.

The extension and progressive increase of literature, and of newspapers, is in some degree exemplified by the following return showing the total number of letters and newspapers passing through the General Post Office, distinguishing ship from inland, during the years 1844, 1845, 1846, and 1847.-

_	1844	1845	1846	1847
Number of Post-offices Letters —	11	13	17	25
Ship Inland	26,941 9,384	31,277 11,052	37 233 14,136	4°,312 31,638
Newspapers — Ship Inland .			73 012 22,137	
Total Letters " Newspapers Income	36,325 61,015 £752	72,392		79,950 123,912 £1,504
Expenditure	£751	£706		£1,269

About one-third of the newspapers under the head of "inland" were received by sea, and are consequently entered twice.

It is stated by Sir H. E. F. Young, the present governor of South Australia, in an interesting despatch to Earl Grey on the state of the province, dated June 8th, 1849, that mails are despatched from the city to Hindmarsh village and to the port six times a-day, the postage being 2d., and the extreme distance eight miles and-a-quarter, the postage to all other places within the colony, thirtytance 233 miles. To the most settled districts Lincoln, by sea, as opportunities offer. The the very opposite is the fact. postage to Melbourne and Sydney is 8d.; which nearly covered the expenditure.

CRIME.—It might be supposed from the the mail is despatched twice a-week; to erection of a gaol at Adelaide, at a cost of Guichen Bay, Mount Gambier, Melbourne, about £40,000, that there was a great and Sydney once a fortnight: and to Port amount of crime in the province, whereas

The annexed return extends over several the overland mail to Sydney is at present years, and considering the newness of the but little used by the public. The revenue colony, and its proximity to the large amount of the Post-office of South Australia for the of prison population in Tasmania or Van year ended 31st March, 1849, was £2,215, Diemen's island, the number of criminals cannot but be considered small.

Comparative Return of the Number of Offenders convicted in the Province of South Australia since 1840. the years ending September 30th -Since 1847, returns imperfect.

the gears enaing september											
In the Supreme Court.	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	1850
FELONIES:—											
Murder	_	1		3		2		1	l		_
Stabbing, cutting or shooting with intent to kill		_			1		_	î		l	1_
" or do some bodily harm	l —	l —	2	1	1	l	l	1		_	_
Manslaughter	1_	l	Ī		_			1_			
Highway robbery	4	1			1		5			_	
Assault, with intent to rob		2		1		_	_	_	_		
Burglary	2	ī		ī		l	2	3			
Burglary	1 7	3	4	li		1					_
Burglariously breaking and entering dwelling-	1	1	-		1	1 -				1	1 -
house, and stealing therefrom	l —	l —		2			1	_	_	-	-
Breaking and entering dwelling-house, and		l			l	l			l		
stealing therefrom	4	—	1	2		-	2	-	_	-	-
Stealing in dwelling-house, and putting the	1	1)	1	j	1		1	1	}	1
persons therein in bodily fear	4	 —	l —	 	-	-	 —	l —	 —	 —	_
Sheep-stealing	1	l	3	2	1			2			1
Horse-stealing	1	1		ĩ	1	1		ı	-	-	-
Cattle-stealing		1	4	3	1	1		١ ٠		_	-
Receiving stolen goods	1	1	1		2	_	-	_	-	i —	_
Larceny		20	11	6	15	8	17	16	_	1 —	_
Larceny and former conviction		20	1 **	3	13	1	111	10	_	1	
Stealing from the person		3	6	1	_	1 1	1	_	-	-	-
Stealing in a warehouse	1	1	1	1 *	_			_	_	_	_
Torrow		1	1	-	_		1	_	_	1 —	_
Forgery Uttering forged notes, orders, &c, with intent	1 1	-	1	-	-	1 -	_	_		-	-
to defraud	. —	-		1	l —	1	2	l —	1		
Control of the contro	1	1	1	1	7		l	1	1	1	1
Counterfeiting coin		_		_	1				_		
Total felonies	43	34	35	28	29	14	31	24	_	_	_
Misdemeanours —	1	1	1			1	1		1	1	1
Assault, intent to commit rape		1	-	-	_	1	1	-	-	I —	-
Fraud	1	_	2	_	1	-	_	_	i —	I —	-
Assault	3	2	-	1	3		1	-	-	-	1_
Assault	-	-	_	-	-	1	_	-	_	-	1 -
		-	-	-	-	-		-			-
Total misdemeanours	4	3	2	1	4	2	2	-	-	-	-
Total convictions	47	37	37	29	33	16	33	24	_	-	
	1 -	1	1			1	1	1	1	1	1

by a supreme court, which sits for civil and parts of the province. criminal business four times a year. There resident magistrates' court sits daily at sede the necessity of "courts of request."

THE LAWS are, as in the other Australian Adelaide, and there are seventy of her colonies, entirely English, and administered Majesty's justices of the peace in different

The establishment of district or county is a judge, an advocate-general, and crown courts, for the economical and summary solicitor, a commissioner of insolvency, a recovery of deb s under £50, according to sheriff, and an official assignee. The mem- the constitution of the "county courts," bers of the legal profession, who in 1849 which are now working so satisfactorily in had taken out certificates as barristers and England, would be a great advantage, if solicitors, were in number twenty-four. A extended to our colonies, and would super-

GOVERNMENT.—The affairs of the province and dangerous effects resulting from a single are administered by a heutenant-governor, usually styled a governor, who is joined in an avert the evil (of a single and democratic executive council by the colonial secretary. the advocate-general, and the surveyor-gene-The Legislative Council consists of the lieutenant-governor, colonial secretary, attornev-general, register-general, and four private gentlemen of the colony, holding no office under the government, but nominated by the crown under the recommendation of the secretary of state for the colonies. It is to lay down the form of constitution best proposed to change this form of legislative suited to her colonies," according, however, authority to that of a Legislative Assembly, with one-third the number of members to be nominated by the crown Of the propages 553 to 558.

The bill for the better administration of the affairs of the Australian colonies has now (19th of June, 1850) passed its second reading in the House of Lords without any material alteration in the provisions of the bill, excepting the withdrawal of the power from the crown of disposing of the waste lands in the colonies (see page 554), and the extension of the franchise by Earl Grey, conformable to the suggestions of leading practical men in both houses of the legisla-The bill may now, therefore, be considered as finally settled, and I deem myself at liberty to offer a remark which I did not feel justified in making in a work of this nature while the subject was pending, considering it my duty to avoid becoming a partizan on so important a question, or endeavouring to influence public opinion on what has not assumed in legislation or in action the character of a fact. With reference, then, to the measure for preserving, at least for the present, the existing form of Legislative Assembly of New South Wales (see p. 556), and for granting to the other Australian colonies a similar legislative body, I think that such procedure, namely, one House of Assembly, partly elected by the people, and partly nominated by the crown, the proportion nominated being one-third of the elected, decidedly preferable to having two chambers elected by popular suffrage.

In the committee of the House of Lord on the Australian Colonies' Government Bill (11th of June, 1850), Lord Monteagle moved that there shall be within each of the said colonies of New South Wales and Victoria a Legislative Council and a Representative Assembly; his lordship supported his motion by references to the mischievous -Times.

chamber, and urged that "the only way to chamber) was by a double chamber, to the upper of which, by the election of persons of greater age, for a longer time, and with a higher qualification, they would impart a stable and conservative character."

Lord Lyttleton, in supporting the proposition of Lord Monteagle, contended that "it was the bounden duty of the mother country to the report in the Times of the 12th of June, 1850, his lordship suggested that "the bill might be sent out to the colonies posed alteration I have given full details at with words providing a double chamber, but leaving it to the colonies to fill up the scheme."

The bishop of Oxford suggested that there should be two chambers—one called the Upper, and the other the Instrative, but both elected; the upper to consist of a small number of persons, to be elected by a high franchise, and to be older men than the members of the Initiative further, that they should sit for nine, instead of three years, and that only one-third of the members of the upper chamber should retire at a time. His lordship thought that a chamber thus constituted would be in "favour of things as they were," and thus act as a check on the Initiative chamber, who would "seek to improve by continual innovations," and that the conflict and collision which was inevitable in every self-governing country, especially in those inhabited by our own blood and race, would be mitigated in its evil consequences.*

These propositions are at variance with the principles of monarchical government: they are perfectly in unison with the repubhean constitution of the United States, and might be supposed to emanate from the senate at Washington, rather than from the house of Lords in London. The congress of the United States of North America is a practical proof that two elected chambers are no security against the acknowledged evils of democracy, however different may be the qualifications of the electors or of the elected; and the sagacity of General Washington enabled him clearly to foresee, that a plutocracy, or domination of wealth, would in time become an all-pervading influence in the republic which he was unavoidably

^{*} Debate in the House of Lords, 10th June, 1850.

compelled to adopt. A plutocracy is the cordance with the principles of the British no object of attainment for human ambition. energy, or patriotism, the mere accumulation of riches becomes the sole spring for action, and men lose those ennobling influences which help to form the character, and guide the conduct of those who live under the eye of a sovereign, and desire the honorary or hereditary distinctions which the crown alone can bestow.

It is with deference, and, I may add, with diffidence, that I venture to offer an opinion adverse to the propositions put forth by several distinguished members of both houses for two elective chambers in the Australian colonies, but my colonial experience teaches, that to leave the representative of the crown in the distant parts of this empire without any gradation of rank between himself and the representatives elected by the people without any breakwater between the surge of popular opinion and the undoubted prerogatives of sovereign power—must inevitably lead, and that at no distant date, to the formation of a republic, and a separation from monarchical England.

If, therefore, her Majesty's ministers did not deem that there were the materials in Australia for creating two chambers, in ac-

* Since the foregoing was written, Sydney papers have been received from New South Wales, to the date of 21st February, 1850, containing a memorial which is said to embody the wishes of the greater part of the colonists, who pray that all classes of the comnumity may be fairly represented in the proposed new constitution, which, they hope, will resemble the British constitution as closely as the circum stances of the colony will allow, they pray to be "protected against rash and hasty legislation by the interposition of a second chamber, and that this step in the progress of constitutional government be no longer deferred "The constitution which the colo nists seek is, the vesting of their government in three estates—(1) a governor appointed by the crown, (2) a Legislative Council, consisting of members nominated by the crown, together with ex officio members of the executive, in the proportion of one ex-officio to four non-official members, (3) a House of Assembly elected by the colonists This is sub stantially the plan recommended in my Colonial Policy, published in 1837, for colonies when ripe for constitutional government, it is one for which New South Wales is now prepared, and which the colonists seek to obtain.

In the Legislative Council of South Australia, the Honourable John Morphett, an intelligent, respectable, and influential member of the local legislature (see Despatch from Sir H E F. Young to Earl Grey, dated Adelande, 16th November, 1848), proposed—"That, in the opinion of this council, the form of the legislature should, as nearly as possible, resemble that of the mother-country, consisting of a governor and two chambers, one in the nature of

great bane of colonial society; there being constitution, they had no alternative but the maintenance of the legislative system introduced by Lord Stanley, in 1842; and Earl Grey truly urged that the Legislative Council of New South Wales had "acted with more judgment, discretion, and regard to the public interests, than was usual with colonial governments," that it stood "very high among colonial administrations, and was, on the whole, well adapted to the condition of the people." (June 10, 1850).

Time and circumstances will eventually necessitate the formation of legislatures in our southern colonies similar to those which have existed for so many years in British America and in the West India islands, for this change the bill now sanctioned by the house of Commons and the house of Lords provides, and when that necessity arises, her Majesty's ministers and the Imperial Parliament can more effectually deal with the question than probably could be satisfactorily done at the present moment.*

Lieutenant-Governors of South Australia according to the dates of their being proclaimed in the colony Captain Hindmarsh, R N Dec 28th, 1836 . . Lieutenant-Colonel Gawler . . . Oct 12th, 1838 May 10th, 1841. Captain Grev Major Robe Sir H. E F Young . . Oct 25th, 1845 Aug 2nd, 1848

an upper chamber, to consist of hereditary members, nominated by her Majesty the Queen, and which members of the upper chamber, in order to secure identity of interest with the colony, should possess a certain landed qualification, free and unemcum-And, further, in order to secure a permanence of that identity of interest, it is desirable that each inheriting member should possess, and prove the possession of, an equal landed qualification to his predecessor—That, in the opinion of this council, the second chamber should consist of members elected by the people—That all bills passing the two chambers, and receiving the assent of the governor, should at once become law -I hat in the opinion of this council, an executive council should be given to the governor, consisting of two officials, having seats in one or other of the chambers, and two members of each of the chambers, all to be nominated by the governor That such members of the executive should continue in office so long as the government could command majorities in both chambers upon questions introduced to the chambers by the governor, and so long as they retained seats in the respective chambers of which they were members such members of the executive should receive certain fixed emoluments That in order to secure the irresponsibility of the governor, who would be a third branch of the legislature and the representative of sovereignty, the members of the executive council should be responsible, and should go out of office as before provided, and upon a vote of want of confidence, passed after due notice being given of its introduction, by the chamber of representatives."

CHAPTER IV.

FINANCIAL STATE, REVENUE, LAND SALES, CUSTOMS' DUTIES, AND EXPENDITURE-BANKING INSTITUTIONS—COMMERCE, IMPORTS, EXPORTS, AND SHIPPING—STAPLE PRODUCTS—MINES AND MINERALS—AGRICULTURE—LIVE STOCK—PUBLIC COMPA-NIES AND SOCIETIES-RATES OF WAGES-PRICES OF PROVISIONS-FIELD FOR EMIGRATION.

THE first chapter of this book on the history burdened with a bond debt of £85,000, of of South Australia, shews the improvident which the interest is being paid by the coloexpenditure and consequent financial embar- nists from the land revenue. rassment, caused by the proceedings of Governor Gawler.

To save the province from ruin, the aid of the Imperial Parliament, as before stated (see page 645), became absolutely necessary, and in the year 1841, £102,649 were advanced to meet Governor Gawler's drafts on the colonization commissioners, and £52,350 to defray other expenses; in 1842, £27,290 was voted to meet Governor Gawler's drafts, and £32,646 to meet Governor Grey's; in the course of the three following years, £10,446 were advanced to meet Governor Grey's, making a total of £225,382, which, though at first voted as a loan, was subse-

The colonists claim from the Imperial Treasury a sum of about £82,000 on the grounds of money to that amount having been abstracted from the land fund, and applied by the colonization commissioners during the difficulties of the colony to governmental purposes, notwithstanding the pledge given to all purchasers of land previous to the year 1841, that the produce of the land sales should be devoted solely to the furtherance of emigration. This demand the British government consider unreasonable; the common sense of the matter appears to me, that the sum in question having been borrowed from the emigration fund in quently confirmed as a grant. There has aid of the local revenues, should be repaid been, I believe, much discussion as to the from the same source for which it was boramount of aid afforded by Parliament, but rowed—that is, whenever the fixed and incithe above statement is given on the authority dental revenue exceeds the wants of the local of a document recently sent home by the government, a portion should be set aside governor of South Australia. Notwith- for the repayment of the money borrowed. standing, however, the large sums thus Annexed is a comparative return of the net granted, the provincial government remains ordinary revenue during the last six years -

Details of Fixed Revenue	1844.	1845	1846	1847	1848	1849
Customs (including pilotage and)	£20,124	£25,590	£37,643	£48,742	£55,439	£73,900
Postage	752	946	1,108	1,504	1,954	2,000
Fees—Public Offices	1,689 274	2,207 347	2,561 175	3,533 237	} 5,366	4,500
Licences	2,156	2,409	2,941	3,733	4,593	5,420
Auction duty	563	570	546	1,458	1,521	2,000
Assessment on live stock	1,486	2,191	1,341	4,860	3,175	4,000
Permits	44	52	47		_	
Storage of gunpowder	24	65	155	174	129	200
Tolls			280	254	_	-
City rates			70	1,181	1,318	700
Total fixed revenue	27,116	34,381	46,871	65,679	73,495	92,700
Incidental	761	1,800	1,146	1,348	9,352	1,480
Total revenue	27,877	36,182	48,017	67,027	82,847	94,200
Deduct the revenue from each preceding year }		27,877	36,182	48,017	67,027	82,847
Increase on each year	_	8,305	11,835	19,010	15,820	11,353

Note—The circumstance of a large proportion of the assessments on live stock due for 1846 not having been collected until 1847, accounts for the apparent decrease in this branch of the revenue in the former year, and its increase in the latter. The revenue for 1849 is an attimate for the year ending 31st March, 1850, as laid before the Legislative Council at Adelaide, in the session of 1849-56.

It will be observed that since 1844, there has been a steady annual augmentation of the revenue. The increase during the year 1847 over that of 1846 is thus noted by Lieutenant-governor Robe:—

Duties of Customs on Imports —On spirits, an increase of 23 per cent.; on tobacco, 24; on wines, 98; on other goods, 35; on other customs' receipts, 67; on

the general receipts of customs, 29.

The other sources of revenue show a corresponding increase in 1847—Postages, 36 per cent; fees of offices, 38; of which the registry fees, 44; fines, 36; heences, 27; auction duty, 166; and on the gross revenue, 39.

The auction duty increased very largely, which is attributed by the heutenant-governor to the admission of goods to free warehousing, under the Ordinance No. 16, of 1846.

The annexed statement gives in detail the income of 1847 and 1848:—

income of 1847 and 1848:—		
Details of Income	1847	1848
CUSTOMS — Spirits imported . Wines Tobacco Other goods . Warehouse rents . Incidental receipts	18,378 2,806 7,448 19,118 990	£22,714 3,119 8,890 20,094 222 57
Less drawback repayments	50,634 1,892	55,098 596
Total	48,742	54,501
MISCELLANEOUS:— Postage of letters Fines and fees. Licences (Publicans) (other) Assessment on stock Auction duty Storage of gunpowder Tolls City rates Pilotage and harbour dues Total INCIDENTAL— Rents of government property Sales of	1,504 3,771 3,527 206 4,860 1,458 174 254 1,181 16,735	1,954 5,366 4,350 243 3,175 1,521 129 1,318 938 17,994
Surcharges recovered	. 26	1
Repayments	299	1,160
Miscellaneous	207	6,969
Total LAND FUND:	1,346	9,413
Proceeds of sales of waste lands Licences, occupation timber Rents of aboriginal reserves Immigration department Repayments		33,748 1,570 660 28 76 30
Total.		36,112
General total of receipts		119,023
Note.—No returns in Blue Book of	f land fun	d for 1847.

The customs duties form the largest item of revenue. Until the 6th of July, 1849. there was a differential tariff in South Austraha, but under the authority of the Imperial Legislature the colonial Legislative ouncil from the above date adopted an uniform tariff on the importation of the goods and produce of all countries alike. The duties levied on the principal articles are-manufactures of cotton, silk, wool, and hnen, five per cent. ad valorem; also on arms, apparel, baskets, boats, brass manufactures, brooms and brushes, clocks and watches, copper manufactures, cutlery, earthenware, furniture, gloves, grindery, hair manufactures, iron manufactures unenumerated, implements and tools, lead manufactures, machinery, matting, musical instruments, netting, paper stained and hangings, perfumery, pewter ware, pictures, pipes not of common clay, plate and plated goods, saddlery and harness, stationery, tin ware, five per cent ad valorem. On all other articles the duties are as follows :-

Alkalı, 6d. per cwt.; annatto, 3s.; arrowroot, 3s, bacon and hams, 2s 6d; bags and sacks-corn, 5s per 100, ore, gunny and returned, 6s. 6d, bales for wool, 2d. each, beef and pork, 1s 6d per cwt, beer, porter, ale, cider, and perry, 3d per gallon; liquid blacking, 4d per gallon, paste blacking, 1d per lb.; printed books, 6s per cwt, barrows and trucks, 1s each, boots, 6s per dozen pairs; half boots, 3s, shoes, 2s; children's, 1s., bread and biscuit, 7d per cwt, glass and stone bottles, 1d per dozen, fire and bath bricks, 5s per 1,000, other bricks, 2s., brimstone, 6d per cwt, butter, 3s, chain cables, 1s 6d; tallow candles, 3s, wax, composition, sperm, &c, 6s; canvass, 2s. per bolt, carts and drays, 10s. each, wheeled waggons and tumber carriages, 20s, carriages, 5 per cent. ad valorem, empty casks, 2s per tun, cement, 4d per cwt, chalk, 1s 6d per ton, cheese, 3s per cwt.; chocolate and cocoa, 1d. per lb.; coals, 9d. per ton, coke, 2s, coffee, 4s. per cwt., confectionary, 2d. per lb; copper, sheathing and nails, 5s per cwt; cordage and rope, viz, Europe, 2s. per cwt., Manilla, 1s 6d , Coir and Jute, 9d , unenumerated, 1s. 6d; small cord and twine, 5s per cwt., cork, 2s, corks, 1d per gross; corn, meal, and flour, viz, wheat, 1s 6d per quarter, barley, 1s 3d oats, 1s 3d.; maize and millet, 1s.; peas, beans, and pulse, 1s. 6d., malt, 3s.; flour and meal, 1s. per 100 lbs.; bran and pollard, 3d do; cutlery, 5 per cent. ad valorem; drapery, ditto, drugs—corrosive subli-mate, 2d. per lb.; spirits of tar, 1d. per gallon; vitriol, 1d; unenumerated drugs, 5 per cent. ad valorem; other unenumerated and manufactures, ditto; bed feathers, 1d. per lb.; dry and pickled fish, 1s. per cwt ; flax, 1s ; dried fruits of all sorts, 2s.; in bottles, 6d. per dozen quarts; preserved in sugar, succades, and jams of all sorts, 1d. per lb , fresh, 6d. per bushel; plate glass, in squares exceeding 600 inches, 4d. per lb.; not exceeding 600 mches, 3d.; crown and sheet, in squares exceeding 200 inches, 2s. per 100 feet: not exceeding 200 inches, 1s. 6d; fint glass, cut, cast, mirrors, and manufactures, 5 per cent. ad valorem; glue, 1s. 6d. per cwt., grease 1s.; sporting ;unpowder, in canisters, 5s per cwt, blasting, 2s d, groceries, 5 per cent ad valorem, haberdashery and millinery, ditto, hosiery, ditto, curled hair for upholsterers' use, 1d per lb, hats and caps, 5 per cent ad valorem, hay, 2s per ton, dressed hemp, 1s 6d per cwt, undressed tow and oakum, 1s, dressed hides, 3s, raw, salt, and dried, 1s, honcy, 4s, hops, 2d per lb, writing ink, 3d per gallon, printing ink, 1d per lb, iron, viz, bai and rod, 10s per ton, sheet and hoop, 14s, pig, 5s, sledges, anchors, anvils, plates, cart-arm moulds, and articles of wrought non, heavy and in the rough, 1s per cwt, cart arms and boxes, finished—chain, aiticles of, wrought iron, finished, 1, 6d, camp ovens, pots, boilers, and castings, 10d, refined isinglass, 6d per lb, common for manufacture, 2d, implements and tools, 5 per cent ad valorem, jewellery, ditto, old junk, 1s per cwt, lard, 2s 6d, lead, viz, pig, sheet, and shot, 1s per cwt , leather, sole, 3s per cwt , kip and harness, 6s, cali, 1d per lb, patent bazils, 5s per dozen, kangaroo, 1s, hogskin, 1s eich, basils, 6d pr. dozen, enamel, 3s 6d per hide, lime and lemon juice, and sylup of all sorts, 3d per gallon, lucifers, 4d per gross of boxes, maccaroni and vermicelli, 1d per lb, mits and mitting, 5 per cent ad valorem, musical instruments, ditto, mustard, 1d per lb, needles, 3d per 1,000, nuts, viz, almonds, walnuts, chesnuts, filberts, and small nuts, 2s per cwt , shelled almonds, 4s , cocoa, 6d per 100 , oil, black, 1d per gallon, sperm, head matter, and other fish or animal oil, 3d, linseed, ripe, hemp, and cocoa nut, 2d, olive, castor, and other vegetable oils, 6d, oilman's stores, 5 per cent ad valorem, onions, 1s per cwt , paints, 1s', punters' colouis, and whiting, 6d, brown paper, wrapping, and blotting, 3s per cwt, punting and cartridge, 5s, writing, 1d per lb, other unenumerated manufactures, 5 per cent ad valorem, parchment, 3s per roll, percussion caps, 2d per 1,000, pickles and fruit preserved in salt, 4d per gallon, tobacco pipes, of common clay, 1d per gross, pitch, 1s per barrel, potatoes, 3s per ton, provisions and preserved meats, 3s per cwt, pins, ld per lb , rice, 9d per cwt , rosin, 6d per barrel, sago, 1s per cwt , salt, 3s per ton , saltpetre, 1s 6d per cwt, skins for tanning, 4d per doz, soap, 1s per cwt, spices, viz, cassia, 3s per cwt, cinnamon, 2d per lb, cloves, ld, mace, 2d, nutmegs, 2d, qinger, 2s per cwt, pepper, 1s 6d other spices, 5 per cent ad valorem, spirits or strong waters of all sorts, viz, for every gallon of such spirits or strong waters of any strength not exceeding the strength of proof by Syke's hydrometer, and so in proportion for any greater or less strength than the strength of proof, and for any greater or less quantity than a gallon, also, perfumed sprits not being sweetened or mixed with any article so that the degree of strength thereof cannot be exactly ascertained by such hydro meter, 10s per gallon, spirits, cordials, or strong waters, sweetened or mixed with any article so that the degree of strength thereof cannot be exactly ascertained by Syke's hydrometer, 10s, starch, 2s per cwt, steel, 2s, stones—millstones, 2s per foot diameter, grindstones, 1d, roofing slates, 3s 6d per 1,000, slabs and flagstones, 1s per 100 feet superficial, tomb and wrought stones, 1d per foot ditto, marble, wrought, 6d ditto, bluestone, 5s per cwt, refined and candy sugar, 4s per cwt, muscovado, 2s, molasses, 2s, tapioca, 2s, tallow, 2s, tar, 1s per bariel, tea, 2d per lb, tin plates, 2s per box, tobacco, manufactured, 2s per lb, unmanufactured, 1s, cigars and cheroots, 5s, snuff, 2s, boiled down in

bond for sheepwash, 1d, toys, 5 per cent. ad valorem, turnery and woodenware, ditto, spirit of turpentine, 2d per gallon, vinegan, 1d, whalebone, 14s per cwt, wine, 1s per gallon, wood, viz, posts and rails, hand spikes, and poles, 1s 6d per 100, paling, 6d, shingles and laths, 6d per 1,000, tienails and spokes, 2d per 100, oars, 2s per 100 feet, square timber, and balks, spars, deals, battens, quartering, planks, boards, and sawn, hewn, or split timber of all kinds, not otherwise particularly enumerated or described, 2s 6d per 40 cubic feet, manufactures of wood, 5 per cent ad valorem, zinc, and manufictures of ditto, ditto

Unenumerated articles, raw and manufactured, 5

per cent ad valorem

Animals, living, baggage of passengers, bottles imported full, bullion and coin, plants and trees, seeds and roots, garden, specimens illustrative of na tural history, and wool unmanufactured are imported

CUSTOMS' STORAGE -Ample accommodation is provided by the government at this port for the storage of goods in bond, for which the following are the weekly rates of storage —For every pipe or pun cheon, 1s, hogshead or half-pipe, 6d, buriel of quarter-cask, 3d, tierce, 4d, six-dozen bottle cases, 6d, three dozen ditto, 3d Any less or greater quantity to be charged in proportion to the above scale

The powder magazine is situated on La Tevie's Peninsula, opposite Port Adelaide, where powder is stored at the following rates -For each bairel con taining 50 lbs, for not more than six weeks, 1s, above six weeks, per week, 2d, containing less than 50 lbs, for not more than six weeks, 6d, above six

weeks, per week, 13d

Rates of Pilotage —For every vessel taking a pilot, £2, and in addition for every foot of draft of water above nine feet, 10s, vessels employing the steam tug have onefourth of their pilotage remitted. Harbour Services—Mooring, unmooring, and removing vessels above 70 and under 100 tons, 10s. if 100 tons register, 15s, and for every 20 tons above 100 tons, 1s. In addition to the above, 1s per hour for each man in the harbour department employed in the above The charges for the use of the steam tug for towing in or out of harbour any vessel of 200 tons register or less, £5, and for every ton over 200 tons, 6s.

Dues on entry and clearance, wharfage and pilotage, were abolished in 1845 storage charges at Port Adelaide are for every pipe or puncheon, weekly, 1s, hogshead or half-pipe, 6d, barrel or quarter cask, 3d; theree, 4d, six dozen bottle case, 6d,

three dozen ditto, 6d.

All her Majesty's vessels of war, hired transports, merchant ships freighted wholly or in part by government, vessels of the royal yacht squadron, and ships of war belonging to friendly nations, are exempt from all pilotage,

"City rates," or assessments on houses, were raised in 1847 from six to twelve-pence in the pound; the whole of such rates are expended upon the streets of Adelaide. Licences to publicans yield no inconsiderable revenue, as will be seen by the subjoined .-Number of Publicans' Licences granted in South

Australia from 1844 to 1847, inclusive.

Year		cans' Ge- Licences	Wine and Beer Licences		Storekeepers' Licences		Total
	No	Amount	No	Amount	No	Amount	
1844 1845 1846 1847	63 73 106 135	£1,575 1,825 2,650 3,375	7 12 13 6	£84 144 156 72	5 6 9	£25 25 30 45	£1,684 1,994 2,836 3,492

Comparative Number of Public Houses in the Province of S. Australia from 1844 to 1847 inclusive.

Locality	1844	1845	1846	1847
Adelaide Port Adelaide and Albert Town Country, including P Lincoln	34 3 33	41 4 40	54 4 60	61 5 66
Total	70	85	118	132

The annexed table shews the quantity of land sold, the price per acre, and the income.

	Quantity of	Average	Total an Purchase	Propor-	
Year	land sold, in acres	price per acre	Paid in Eng- land	Paid in S Aus- tralia	received in each year
1835	58,995	£0 12 0	£35,397		£35,397
1836	{ 1,680 240	0 12 0 1 0 0	1,248	_	1,248
1837	\$ 591 3,120	6 1 0	3,120	3,594	6,714
1838	48,040	1 00	37,960	10,080	48,040
1839 1840	170,841 15,565‡	1 0 0	48,336 7,040	122,505 8,525	170,841 15,565
1841	1	0 12 0	320	7,331	7,651
1842	7,650½ 17,081½	1 0 0	80	17,001	17,081
1843	598	1 0 0 2 6 4	\ -	613	613
1844	{ 1,496◆ 1,932+	1 28	100	5,566	5,666
1845	{ 5,675* 43,983+	1 11 3	} -	52,902	52,902
1846	{ 11,193* 48,209+	4 9 8	21,720	76,874	98,594
1847	{ 16,911* 18,092†	1 2 7	} 908	35,428	36,336
1848	29,200	1 1 9	ľ –	_	36,112
1849	_	I —	l	_	_
1850	I —	_		-	-

Note —325,464‡ acres were sold at fixed prices, and 2,367 acres disposed of by public auction up to the year 1844, 3,463 acres have been reserved for the aborigines The acres marked thus (*) were sold by public auction, and those marked thus (†) at fixed prices

It will be observed, that in 1843 the sales of land had diminished to 598 acres; and even that small quantity would not have been sold at 20s. an acre, but that some of it contained minerals, which in that year were discovered in South Australia. The subsequent sales have been chiefly owing to this fortunate addition to the natural re-

that the colonists of South Australia are generally favourable to the maintenance of the system of public sales at a minimum price of 20s. per acre. This, considering the mineral value of the lands, and that most of the purchases have been made on this principle, is not unreasonable. But it seems to be forgotten that the minimum price at public auction of a commodity in demand is of comparatively little consequence, for, in this case it may be said with Hudibras,

"The value of a thing Is just as much as it will bring "

If limited quantities of surveyed lands were annually offered to public competition, at a price, say, of 5s. per acre, due notice being given of such sales in England and in Australia, and accurate surveys on an extended scale deposited in a crown-land colonial office in London, as well as in the colony; whatever the land was actually or prospectively worth would be bid for it, irrespective of a minimum upset price.

During the debate on the Australian colomes bill in the House of Lords, Lord Lyttleton proposed that the power of repealing all or any part of the 5 & 6 and 9 & 10 of Vic., regulating the sale of waste lands in the Australian colonies, should be given to the governors in council of New South Wales, Victoria, Van Diemen's Land, and South Australia; and that they might make further or other provisions for the management of the said waste lands, and the appropriation of the sums derived from such His lordship ably and rightly contended that it was altogether inexpedient longer to maintain the existing price of £1 per acre in these colonies, especially in New South Wales and Victoria; and he referred to the report from the Legislative Council of New South Wales on the subject (see p. 428). That the local legislatures would reduce the price of land he had no doubt, but he did not imagine they would be disposed to alter any of the other principles of the existing land sales; they would maintain the division of the land fund in two parts, applying the one to local improvements, the other to emigration. If the local governments did not thus act, the Imperial Legislature might refuse their assent to any deviation from that principle. As to those who had purchased land on the understanding that the minimum price of £1 per acre was not to be reduced, he had no doubt but the local legislatures sources of the colony. It is understood would act rightly in regard to them; but these vested individual interests were, in New South Wales and Victoria, exceedingly few in number, as the land sales at this

price were very limited.*

Earl Grey, however, in the same debate, the "crown lands in the colonies were of England were to be considered on this question." The subject is one of great importance to all classes, and other occasions will occur for its further examination

land alienated by the crown in South Auswere then surveyed and unsold county lands. and unsold mineral lands open for purchase. offered for sale, and remained unsold lands surveyed, but not yet sold, comprise gressive increase is thus shown:-

320,168 acres, and, under the existing regulations, cannot be sold for less than twenty shillings per acre. The unsurveyed land is computed at two million acres. How much of it is available for tillage or for pasturage (12th June, 1850), truly observed, that it is impossible to say; but even at five shillings per acre, there is a considerable domains held by the sovereign as trustee, revenue still to be obtained by the crown for the benefit of all the subjects of the from this source. The average cost of the realm," and that "the interests of the people surveys in South Australia, during the year 1848, was about fourteenpence-halfpenny per acre, including everything but office-rent

EXPENDITURE.—In 1840, when the colony was just formed, the expenditure was At the beginning of the year 1849, the £169,966; but this ruinous extravagance was checked, as we have seen, by dishonourtraha amounted to 499,283 acres; there ing the drafts of the governor, and by the recal of Colonel Gawler. As soon as prac-82,287 acres, and 16,902 acres surveyed ticable, his successor, Captain Grey, reduced the expenditure to reasonable limits; and, at the upset price of 20s per acre, without in 1844, it was within £30,000: the subcompetition, as they had been previously sequent annual disbursements have, in each The year, been less than the revenue. The pro-

Expenditure	1844	1845	1846	1847	1848	1849
Civil establishment Contingent expenditure Judicial establishment Contingent expenditure Ecclesiastical establishment Contingent expenditure Public buildings and works Miscellaneous	£17,293 2,017 3,636 258 214 — 509 5,523	£17,507 3,133 3,421 245 350 — 2,728 4,711	£18,303 4,001 3,637 468 350 777 3,896 5,772	£22,262 6,722 4,126 1,087 350 1,892 15,646 6,891	£25,449 10,407 4,331 1,322 350 — 28,888 9,382	£39,997 2,640 5,707 250 350 — 20,034 11,333
Total Deduct expenditure of previous years Increase on each year.	29,450	32,099 29,450 2,649	37,207 32,099 5,108	58,976 37,207 21,769	80,129 58,976 21,153	80,311

Note—The great increase of expenditure during the year 1847 was occasioned by the number of public works—bridges, buildings, &c., completed, or which were in course of completion, during that year. In addition to the above annual expenditure, t e following repayments have been made from the Colonial Revenue on account of debts incurred by the local government prior to the year 1844, viz, to her Majesty'. Treasury the sum of £1,274 15; 4d, paid in 1844 in liquidation of claims, incurred in the year 1841, to the Land Fund, £984 11s 2d in the year 1844, £1,800 in the year 1845, £9,000 in the year 1845 1349 is an estimate only

for the year ending 31st March, 1850, will prove the resources which a body of Englishmen can develop within a very brief period, when located in a country favourable for their habitation, unfettered in their energies and industry. All the following salaries are paid from the taxes, voted and collected annually by themselves:-

Governor, £1,500; private secretary and establishment, £424; legislative and executive councils, £424; colonial secretary (£700) department, £1,844; treasurer (£500)department, £1,060; registry, £430, audit,

* Times, 12th June 1850

An abstract of the expenditure estimate £830, customs, £2,749; crown lands, £1,326, survey, £3,309; colonial engineers, £1,845, royal sappers and miners, £823, post-office, £3,342, harbour, £4,327; colonial storekeeper, £200, superintendent of cemetery, £50, out-stations, £1,445; police, £11,756. aborigines, £1,991, medical, £1,082; lunatic asylum, £579; supreme court (judge, £1,000) £1,992; insolvent court, £300; resident magistrates' court, £780; bench of magistrates, £150; sheriff's department, £1,565; advocate-general, £700; coroner, £220, colonial chaplain, £350. These sums are irrespective of £2,890, supplementary votes, about £30,000 for public works, and nearly £12,000 for miscellaneous expent here is also a branch of the Austral-Asian.

sales of crown lands is applied to immigration; the other moiety, styled the crown conducted chartered company; it has a reserved moiety, is applicable to the survey, crown lands, and aborigines departments. Out of this moiety £15,000 was paid in paid up. By the charter, there is a power 1848 and 1849, on account of the year 1848, towards the extinction of the colonial bonded debt, of which the interest, at five per cent., is paid yearly, out of the general colonial revenue.

fund of South Australia, from April to December, 1849, was as follows:—

Amount of relief to the General Revenue to be charged to the Land-Fund	£7,971	C
For immigration	17,714 3,355	tŀ
Towards extinction of the bonded debt of £84,000	17,950	
For roads and bridges	7,659 783	7
	£55,433	1
Which will be covered by an estimated revenue from lands sold	27,000]
From licences and rents	1,875 $26,558$	
	£55,433	:

Greatly to the credit of the colonists, they have contributed liberally to the promotion of public works and improvements, under this head, the sums voted were, in 1846, £3,616; in 1847, £14,847; and in 1848, £28,789; and the estimated sum for the year ending 31st March, 1850, is upwards of £30,000. The cost of the Supreme Court-house is £6,000; the governmenthouse, hospital, jail, police office, Resident Magistrates' court, and slaughter-house, would be creditable to any city in England. The expenditure from the British treasury for troops, or what is termed " military protection," was, in 1843, nil.; 1844, £4,000; in 1845, £3,700; in 1846, £3,750; m 1847, £4,000. The total cost for pay of troops and commissariat expenses for five years ending 31st March, 1847, was £15,890. There is a multia consisting of two troops of cavalry and one company of colony was estimated at £125,247; viz. in infantry, but it has not been called out since 1840, and there is no expense attending the force.

traha has its own public bank, which is in circulation is £48,371. coeval with the foundation of the colony;

and, recently, one of the Union Bank of A mosety of the money arising from the Australia, has been placed at Adelaide. The South Australian Bank appears to be a wellsubscribed capital of £200,000, in shares of £25 each; upwards of £180,000 have been of augmenting the capital to £500,000 The corporation is managed by a court of directors in London, and there is a local board of three directors at Adelaide, aided by a manager. The net profits of the bank The estimated expenditure of the land at Adelaide and in London, for the year 1849-50, was £15,153; the dividend paid to the proprietors for the year, was six per cent free of income-tax.

The bank averages for South Australia are hus stated since 1843 -

Liabilities.

Year	Notes in circula- tion	Billain circula- Depo tion	Balance due to other banks	Total
1843	£9,939	£3,314 £51,	897 £793	£65,944
1844	11,027	1,890 55,	348 787	69,054
1845	14,912	3,714 66,	513 340	85,480
1846	23,224	5,008 91,	848 1,451	121,532
1847	32,008	4,793 102,	636 1,739	141,178
1848	40,937	5,826 118,	563 241	165,568
1849				
1850				

Year	Com	Landed pro- perty	Balances due from other banks	Notes and bills dis- counted and all debts due to the banks	Total
1843	£27,881	£8.139	£2,944	£186,067	£225,032
1844	32,492	7,867	3,055	181,121	224,537
1845	30,314	7,590	3,495	174,971	216,37€
1846	69,238	7,226	2,707	196,480	275,652
1847	101,868	7,382	9,280	309,097	409,64€
1848	88,620	10,440	7,194	367,765	474,021
1849			_	_	_
1850	_	_		l —	_

The Coins in circulation are the gold, silver, and copper coins of Great Britain, which bear the same current value as in the United Kingdom.

On 31st December, 1848, the coin in the the Bank of South Australia, £57,573; Bank of Austral-Asia, 25,674; in treasury chest, £32,000; in circulation, £10,000. BANKING ESTABLISHMENTS.—South Aus- The weekly average amount of bank-notes

The course of exchange on London from

1st January to 23rd October, 1848, was two between South Australia and England, affords per cent. premium, from 23rd October to a good proof of the value which the mer-31st December, 1848, four per cent. On chants, manufacturers, and shipping interest the colonies, 1st January to 23rd June, two derive from the foundation of colonies where per cent. premium; from 23rd June to Englishmen can produce those articles which 31st December, one per cent, by the Bank are in demand in the United Kingdom, of Austral-Asia, and by the Bank of South Australia, for same periods, three to two per tures. cent premium.

Weights and Measures as in England

There is a well-managed Savings' Bank at Adelaide, which possesses the confidence of the public.

COMMERCE —The rapid establishment of settled and profitable commercial intercourse

and receive in exchange British manufac-South Australia, that but a few years ago was a wilderness, has now a maritime trade in value little short of a million sterling *

The following shows the imports and exports since 1839, shortly after the formation of the settlement, the years ending January -

		1	mports fro	m		Exports to				
Year	Great Britain	British Colonies	Foreign Countries	Tutal	Imports consumed in colony	Great Britain	British Colonies	Foreign Countries	Total	Imports rc exported
1839	£123,309	£200,325	£23,016	£346,649		£9 524	£6,515		£16,039	
1840	151,026	124,874	27,420	303,320	_	15,699	16,380		32,079	
1841	161,480	123,192	3,676	288,348	_	53,798	50,263	£589	104,650	l —
1842	93,392	69,403	6,627	169,412	_	39,628	35,375	245	75,248	
1843	58,479	47,024	3,595	109,098	_	53,987	26,138	730	80 805	
1844	63,610	54,366	854	118,830	£105,993	64,787	28,451	2,020	95,258	£12,921
1845	103,797	75,848	5,174	184,819	168,160	97,600	41,075	9,783	148,459	16,658
1846	174,689	141,661	13,748	330,099	303,321	216,095	92,340	2,402	312,838	25,778
1847) 1848)	235,374	166,475	8,975	410,285	335,692	166,080	170,360	13,907	350,348	75,133
1849	177,428	196,236	10,662	384,326	346,130	334,977	167,215	1,875	504,068	38,208

Note -The foregoing returns cannot be carried back beyond the year 1839, as the colonial records from which they have been compiled do not embrace any earlier year

The shipping outwards, from the years ending January, 1848 and 1849, according to the Blue Books, was -

Year	Great Britain		British	Colonies	I oreign States Total			Total	tal		
1 car	Number	Tons	Number	Tons	Number	Tons	Number	Tons	Men		
1848	30	10,940	152	28 275	15	5,101	197	44.316	2,575		
1849	16	5.572	125	22,156	10	3.152	151	30,880	1.795		

According to a return in the South Austrahan Almanack for 1849, the number of vessels entering *inwards* for five years, was, from-

Year	Great Britain	British Colonies	Foreign States	Total
1844	6	60	2	70
1845	12	97	5	114
1846	20	111	11	142
1847	28	115	7	150
1848	35	170	10	215

Note—The vessels registered according to law in the colony were, in 1848, 17—tonnage 1,548

* It may not be irrelevant to mention for the benefit of those seeking information on colonial subjects -that it may be obtained with trustworthy accuracy at Saunders' Colonial Library, Charing Cross, where all the colonial newspapers are filed, the proprietor of that establishment having made the collection of

The value of imports for the year ending 5th April, 1849, was £471,526, of the exports, £485,922. Tonnage, in, for the year ending 5th April, 1849, 59,011 tons; tonnage, out, 53,327 tons. Value of staple produce exported during the year ending 5th April, 1849, £446,643 10s.

STAPLE PRODUCTS -I have shewn, in a previous page, the quantity of wool exported from South Australia (p. 618) The quantity shipped from South Australia, for the following years was, in 1845, 1,078,559 lbs; 1846, 1,473,186, 1847, 1,804,918; 1848,

colonial information a primary object Mr Henry Capper, formerly senior clerk to her Majesty's emigration commissioners, a gentleman of long experience, and connected with the early emigration to South Australia, has his office for shipping passengers, &c to the colonies at Saunders' Colonial Library 2,329,134; 1849, (estimated) 2,500,000. £120,000, and of tallow, about £5,000. Tallow, which first appeared on the list of staple produce during the year ending 5th July, 1849, amounted to 2,168 cwt. Wheat, flour, barley, maize, and oats, are now becoming staple exports of the province; in 1843, the quantity of wheat and wheaten flour exported, was equivalent to 38,482 bushels; in 1847, to 169,490; and in 1848, of £40,000. The wheat is of excellent quality; some may be seen at the South Australian Company's offices in London, with a larger ear and a longer stalk than any to be found in the United Kingdom. Eight hundred quarters of South Australian wheat were recently received in Mark-lane, weighing 63 to 65 lbs. per bushel, and sold for 53s. per quarter, when the price of English grown corn was much lower.

Leather, whalebone, oil, beef, live animals, gum, bones, dried fruits, and other articles, are now recorded in the export list, and to this list, doubtless, various items will probably be added. The value of the exports from South Australia for the following years was, 1845, £103,981; 1846, £190,669; 1847, £275,171; 1848, £354,907.

According to an official return printed by order of the house of commons, 5th July, 1850 (No. 511), the total imports of South Australia for ten years ending 1848, were valued at £2,643,847; the exports for the same period at £1,719,856. the shipping inwards was, in tons, 236,624 The quantities and values of the two staple products of the colony, wool and minerals, exported, are stated to have been thus -

	Wool Ex	ported.	Minerals Exported.		
Year	Year Quantity in lbs		Quantity in tons	Value	
1839	_	8,740	-		
1840	_	8,740	_		
1841	641,825	36,226		£390	
1842	661,191	29,749		-	
1843	1,159,574	45,568	20	128	
1844	819,897	42,770	442	6,437	
1845	1,331,888	72,236	1,158	19,019	
1846	2,042,195	106,510	6,609	142,231	
1847	1,114,862	56,131	9,301	174,017	
1848	2,170,793	98,582	17,006	320,624	
Total	9,942,225	505,252	34,536	662,456	

Note -For the years 1839-40 the wool exported is not stated, nor does there appear to have been any exports of minerals during the same period. In 1842 a small quantity of lead and copper was exported, but no mention is made of its being the produce of the colony

The largest article of export consists of The value of the wool exported is about metallic ores, of which the discovery is recorded in the chapter on the history of the province, p. 648. The discovery of a silverlead mine, termed the Wheal-Gawler, was owing to the wheels of a heavily-laden dray passing over a "bunch" of the mineral cropping, through the surface;—the brilbancy of the fragments revealed the treasure possessed by the colonists export was some lead ore, in 1841, to the wheat and flour were shipped to the value value of £390. The exports have subsequently increased in the following ratio:-

	Oı	res in to	ons	Value					
Year	Cop- per	Lead	Eme-	Copper	Lead	Eme-	Total		
1843	1	18	_	£23	£104	_	£127		
1844	277	203	_	4,009	2,427	-	6,436		
1845	664		_	10,351	3,133	_	13,484		
1846	2,691	189		68,395		_	60,314		
1847	6,921	60		142,060			142,640		
1848	10,632	271	68	199,134	3,954		203,788		
1849	16,323	682	-	310,172	10,452	-	320,624		

There are about thirty-five mines in South Australia, of which about one-half are in active working, they are all copper, except two, copper and lead; five, lead and silverlead; and one, copper and gold. mines are all within 100 miles of Adelaide, except two mines, which are close to available harbours. A special survey of 20,000 acres has been purchased in the neighbourhood of Mount Remarkable, with a view to mining operations; and mining explorations have commenced near Port Lincoln. what extent the mineral resources of the colony may yet be developed, it is impossible to predict

Thus, in the short space of seven years, and in a colony whose duration only doubles that period, the exportable produce in metals has been augmented from £127 to £320,624; from one ton of copper ore to sixteen thousand tons Of the copper ore raised in the year 1848, there was exported to Great Britain, in value, £206,605; and of the lead ore, in the same year, to Great Britain, £3,215. India and China afford large and profitable markets for any quantity of copper or lead above what England may require. Iron ore and mineral iron exist in ponderous masses in various parts of the province gold, in a black metallic-looking sand, has been found in the bed of the Torrens river; it is also said to exist, in considerable abundance, in other places, and one or two gold mining companies have been formed at Adelaide for the collection of the precious metal. To afford some idea colony, I subjoin a list of the mines in the of the progress of mining operations in the colony at the close of the year 1848.

Name	Date of Formation	Where established	Capitai
Montacute Mining Company South Australian Mining Association Princess Royal Mining Company Paringa Wakefield Glen Osmond Union Australian Adelaide North Kapunda Mount Remarkable Victoria Gold Mine Prince Albert Prince Albert Prince Albert Prot Lincoln Barossa Royal Enterprize Provincial Mining Mayal Enterprize Mining Association Kapunda Mine Wheal-Granger Mine Wheal-Granger Mine Wheal-Gawler Belvidere Kanmantoo Greenock Creek Adelaide Ore Smelting Company Assoinga	Mar 1845 16 April 1845 16 Oct. 1845 13 Nov 1845 1845 20 Nov 1845 1845 16 May, 1846 3 Nov 1846 1846 3 May, 1846	Adelaide "" London & Tungkillo Adelaide "" Port Lincoln London Adelaide "" " " " " " " " " " " " " " " " " "	£5,000, in 1,000 shares 12,320, increasable to £20,000. 20,000, in 400 shares of £20 each 20,000. 30,000, in £10 sh inc to £50,000 400,000, paid up £80,000. 10,000, in 2,000 shares 22,000, all paid up 25,000 20,000, in 1,000 shares. 3,000, in 600 shares. 3,000, in 600 shares. 3,000, in 1,000 shares 3,000, in 1,000 shares 6,000, in 1,000 shares.
Patent Copper ,,	1 -	Kooringa, &c .	_

Note -There are no particulars published where the dash is inserted

Mining Company and the Barossa Range Association, have been established in the colony. The Australian Company has already received about 1,500 tons of copper, which average about thirty-five per cent. of pure They have pushed forward the workings at their mines at Tungkillo with much energy, driven an adit to the extent of 180 fathoms, and laid down a tram-road of 150 fathoms. Steam power, pit work, and other machinery for three shafts, sufficient to take the mine down 100 fathoms below the adit, together with a general supply of mining implements and stores, have been recently sent out to the colony by the board of directors in London; and under the management of able officers, and with practical Cornish miners, the efforts of this spirited company will, it is to be hoped, reap an ample reward.

After the discovery of the Kapunda copper mine in 1843-4, by Captain Bagot's son and Mr. Dutton, the attention of the colonists was strongly directed to the subject, and at the end of 1844, and beginning of 1845, reports were rife in Adelaide, that a "monster mine" of untold wealth had this mine are very extraordinary. First been found by a shepherd: the precise dividend, 24th June, 1847, fifty per cent;

All these companies, except the Australian after great exertions to raise £20,000 in Adelaide, owing to the depressed state of the province, two associations collected the required sum, and purchased 20,000 acres, by special survey, in the vicinity of the Razorback mountain and Burra creek, lat. 33° 40′ S., long 13° 98′ E, eighty-five miles north by east from Adelaide. The two associations having lineally divided the property, apportioned it by lot, the northern half fell to those who formed the Adelaide Mining Company, and has been called Wheal-Grey, the southern half became the property of an association called the Princess Royal Mining

> The progress of that portion of the Burra-Burra mine termed the South Australian Mining Company, for three years ending 30th September, is thus shown:-

Particulars.	1846	1847	1848	Total
Ore raised Carted to P Adelaide Sold there Shipped to Gt Britain	2,726 10	Tons 10,794 6,963 1,067 5,370	11,731 3,203	21,421 4,481

The dividends paid from the produce of locality was for some time kept secret; and amount, £6,160: second dividend, 8th July,

1847, fifty per cent.; amount, £5,160: clear profit. The formation of a tram-road third dividend, 18th August, 1847, one hundred per cent.; amount, £12,320; fourth Adelaide, and of a railroad from the city to dividend, 1st December, 1847, two hundred the port, as now proposed, will greatly per cent.; amount, £24,640. fifth dividend, reduce the cost of transit from the mine to 1st March, 1848, two hundred per cent., amount, £24,640, sixth dividend, 1st June, 1848, two hundred per cent.; amount, £24,640. seventh dividend, 1st September, 1848, two hundred per cent., amount, £24,640. Total sum, dividends, in fifteen months, amounting to one thousand per cent. = £123,200, of which £119,850 have been actually paid. This prosperity continues.

In the half-yearly report (19th April, 1848) of the Burra-Burra mine, it was stated that there were 567 operatives engaged in raising and dressing the ore, and in other pursuits connected with their estabhishment: that in future, so long as the then satisfactory prospects continued, the directors proposed "paying dividends of two hundred per cent. on the capital stock, on the first day of every third month." The funds necessary to purchase the land in which the mine is situated were procured by issuing 2,464 shares, of five pounds each, the greater number of which are held by the colonists, and are now saleable at about one hundred and twenty pounds!

The following return, compiled from the Swansea ticketing papers, exhibits the produce shipped from the South Australian mines, during the years 1846-7 —

Mines	1	1846	1847		
Mimes	Tons	Value	Tons.	Value	
Burra-Burra . Kapunda Montacute . Kanmantoo . Paringa Princess Royal	1,176 831 265 78 19	£20,684 16,726 4,370 1,259 394	4,351 1,480 55 228 100 60	£94,263 27,769 1,029 3,236 1,608 1,221	
Total .	2,369	43,433	6,274	129,126	

The average price, per ton, obtained for the ores thus sold, was, in 1846, £18 7s. 2d: in 1847, £20 1s.; but the heavy depreciation which subsequently took place in the copper market, very materially diminished the amounts realised for South Australian The average cost of raising the ore, including every item previous to shipment, was about £6 sterling per ton; freight and charges to Swansea, £5 15s. per ton: leavmg, at £20 per ton, more than £8 per ton from the Burra-Burra mine to the city of the shipping, which is considerable. For instance, from September, 1845, to March, 1847, the cartage alone was £21,466.

The distance of South Australia from England has induced the colonists to direct their attention to smelting the ore at the mines, a company has been recently formed at Adelaide, and the Yatala smelting works are now in progress, at a convenient position between the city and port of Adelaide. Another set of smelting works have been constructed near the Burra-Burra mines, contiguous to an extensive forest, by Messrs. Walters and Williams, in connection with Messrs Schneider and Co, of London, at a cost of £70,000. The Messrs Thomas, a well-known and respected family from Cornwall, possessed of much experience in mining, have erected a copper smelting furnace near the South Australian Company's mine at Kanmantoo; other smelting establishments are in progress, including small furnaces for smelting lead, and, in a few years, no more of the poorer ores will be shipped from South Australia, by which a considerable increase of profit must accrue to the colony and to the mining proprietors.

The following is a comparative return of manufactories and works in the province of South Australia, from the years 1844 to 1848 .--

Description of Work	1844	1845	1846	1847	1848
Barilla manufactory	1	1	1	1	1
Boat-builder			1		-
Boiling - down estab-	-			2	2
Breweries .	9	18	13	15	14
Candle-maker	_			1	1
Cloth and woollen ma-	-	-	1	1	1
Coach manufactories	2	3	4	4	4
Flour mills—Steam	3	11	15	15)	_
Wind .	7	8	8	8	25
Water	2	3	1	2	20
Cattle	4	2	2	ر ـــا	
Foundries-brass & iron	2 3 7 2 4 3 4 — 1 1 — —	3 11 8 3 2 4 5	15 8 1 2 2 5 2	2 4 2 1	2 4 2 1
Machine manufactories	4	5	5	4	4
Maltsters	-	10	2	2	2
Organ-builder			1	1	1
Pottery	1	1	_	-	_
Salt-manufactory .	1	1	1	1 2	_
Ship-builders .			1	2	2 2
Smelting works	I	-		_	2
Snuff and tobacco ma- nufactories	1	3	1	1	1
Soap and candle manu-	4	4	4	3	8
Soap-makers .		-	_	2 7 1	2 7 1
Tanneries	7	8	6	7	7
Water-works	1	1	1	1	1
		1			L

from the Blue Book at the Colonial-office; but, excepting the works for smelting copper, there does not appear to have been any increase in the manufacturing establishments for the last few years.

be skilful workmen, and the machinery made is of first-rate character. Seven vessels of nexed statement of the acres in cultivation a small size have been built at Adelaide, from the year 1840 to 1848:—

The return for the year 1848 is given and they are creditable specimens of naval architecture.

AGRICULTURE.—The neglect of this staple source of prosperity, during the early days of the colony, has been previously stated. Ample amends have since been made for The mechanics in the colony are said to this inattention; and the progressive increase of cultivation is shown in the an-

Year	Number of Proprietors	Wheat	Barley	Oats	Maize	Potatoes	Garden	Vineyard	Total
1840		1,059	388	424	192	440			2,503
1841		4,154	897	501	714	456			6,722
1842	873	14,000	2,700	700	850	690	850		19,790
1843	1.300	23,000	3,300	790	290	470	840		28,690
1844	1.357	18,980	4.264	1.045	241	397	761		26,918
1845	1.209	18,838	4,312	1,485	86	459	63		,
1846	1,714	26.134	3,489	1,963	106	590	896	111	
1847	1.837	25,920	5.840	2,946	161	381	993	198	36,440
1848	1,846	29,737	8,479	3,977	4,602	591	1,300	219	48,911

The estimated average per acre is-for wheat, 21 bushels; barley and oats, 25; potatoes. 4. The number of acres enclosed was, in the year 1847, 94,684; and in 1848, 125,643.

The state of each district is shown by the following account of the number of acres in crop in 1848, which shows that, on an average, each landed proprietor has about twentyseven acres of land under cultivation :-

Districts in 1848	Number of Landed Pro- piletors	Wheat	Barley	Oats	Maize	Potatoes	Garden	Vineyard	Total Acres
Adelaide	978	12,744	4,949	2,517	4,579	211	819	171	25,990
Encounter Bay	39	577	81	11	10	12	15	2	708
Gawler Town	232	5,153	1,727	233	6	43	178	22	7,361
Mount Barker	388	6,834	960	767	4	289	187	18	9,058
Mount Remarkable	20	95	20	171	2	16	32	2	338
Port Lincoln	18	45	17	28	-	3	12	2	107
Willunga	171	4,289	725	250	2	22	56	3	5,247
Total	1,846	29,737	8,479	3,977	4,602	595	1,300	219	48,911

Up to the 1st of January, 1849, the number of acres surveyed in South Australia was 465,943; add proportions for roads, 22,641; for the city of Adelaide and park, 3,400; total, 491,984. The number of acres selected was 159,188. In the surveyed lands, 198,997 acres were special; and of these, but 52,400 were selected.

The agricultural and horticultural products are similar to those of the Australian colonies previously described. The vine thrives well, and the product of wine and brandy is increasing.

South Australia was, on its foundation, in 1836-7, supplied with live stock from New South Wales and from Van Diemen's island. Large parties of "overlanders" arrived at Adelaide by travelling along the banks of the Darling, Murrumbidgee, and Murray rivers. The number of stock as-

sessed for the years 1839, 1844, 1845, 1846, and 1847, was-

Year	Horses	Horned Cattle	Sheep		
1839	800	7,600	108,700		
1844	902	22,711	355,689		
1845	1,044	26,146	480,669		
1846	1,826	56,986	681,374		
1847	1,705	56,375	784,811		

Note - 1 he horses and horned cattle are above the age of six months, and the return of sheep includes weaned lambs

The Blue Book for 1848 only contains returns for the Adelaide district, viz --horses, 686; horned cattle, 55,083; sheep, 838,394. It is stated that there are now in the whole province—horses, 5,000; horned cattle, 70,000; sheep, 1,000,000; goats and pigs, 20,000. The increase of sheep is computed at twenty per cent. per annum.

In 1843-4, Mr. Ridley, an intelligent South

Australian colonist, invented a machine which reaped and threshed the corn at the same time. The machine is driven forward by two horses; at the fore end are six prongs, three on each side, which embrace the entire width of the wheel-track, and serve to collect the ears into the narrower range of teeth, which extend into a cylinder, in the form of a comb; between these teeth the neck of the straw passes, and the head or wheat-ear is guided into the lower cylinder, where it is caught by the "beaters," which make 600 revolutions per minute. The grain is beaten out of the ear, and thrown up a curve, whence it falls into the receiving-box, at the bottom of the cart, and the chaff flies off by a sort of chimney, at the upper and back end of the cart. This invention would only answer in a climate where the corn was so dry that it would separate from the chaff at the first blow of the beater. With two horses and two men,

at the rate of one acre per hour.

PRICES IN 1848. — Wheat, 4s. 6d. per bushel; barley, 4s. 6d; oats, 4s.; maize, 3s.; potatoes, per ton, £3 10s. to £5; grapes. per lb., 2d. to 9d.; peaches, per dozen, 4d. to 8d.; melons, per cwt., 5s. to 6s.; apples, per lb., 5d. to 9d.; nectarines, per dozen, 6d. to 9d.; wheaten flour, per barrel of 196 lbs., 22s to 29s.; wheat, per imperial bushel, 3s. 9d. to 5s.; wheaten bread, per lb., $1\frac{1}{4}d$. to $1\frac{3}{4}d$. Horned cattle—cows, £2 to £5; steers, £1 15s. to £3; working bullocks, £3 to £5. Horses, £15 to £20. Sheep—ewes, 4s. to 6s.; wethers (60 lbs.), 7s. Goats, 3s to 5s.; swine, 6d. per lb.; milk, per pint, 2d.; butter, fresh, 1s. 2d to 1s. 8d. per lb.; salt, 1s. to 1s. 3d.; cheese, 9d.; beef and mutton, $2\frac{1}{2}d$.; pork, 6d; rice, 3d.; coffee, 10d.; tea, 2s.; sugar, 3d. to $3\frac{1}{2}d$; salt, 1d.; wine, per dozen, 25s.; brandy, per gallon, 21s; beer, colonial, per hogshead, £4 2s. 6d.; foreign, £7 to £8; tobacco, per lb., 3s. 6d.

Wages for Labour in 1848.—Domestic. male, £25 to £32 per annum; female, £14 to £22. Predial, £31 to £39 per annum.

Trades.—Bakers, 4s. to 5s. per diem; blacksmiths and wheelwrights, 6s.6d.; bricklayers, masons, and plasterers, 7s. 6d.; brickmakers, per 1,000 bricks, 35s.; butchers, 3s.6d. to 4s.2d. per diem; bullock drivers, cabinet and carriage makers, coopers and carpenters, 7s. 6d.; saddlers, 6s.; shoemakers, 7s. 6d., sawyers, per 1,000 feet, 9s.6d.; shepherds, with board and lodging, average £31 4s. per annum; porters, per hour, 7d. to 8d.; farmers, 5s. per diem.

The colony is greatly indebted for its foundation (see p. 638), and for the interest which has been felt in England for its welfare, to an association termed the South Australian Company, which in June, 1850, held its fourteenth annual meeting, and declared a dividend of four per cent, per annum. free from income-tax. The objects of this company were, the purchase and improvement of lands, and their lease and sale, when so improved. It has also introduced improved breeds of stock into the colony, and worked some mining property. Meritorious efforts have been made for the construction of wharfs and warehouses at Port Adelaide, where ten ships may now load or unload, as if they were in the London Docks. The company seem now to be directing their more special attention to leasing land, of which they possess about 60,000 acres; offering it on the following favourable terms to settlers:-

"Engagements for leases for a term of twentya farmer may thus reap and thresh a field one years, at very moderate rates, with a right of

purchasing the freehold.

"The sections, as marked off by the government surveyors, contain either 80 or 134 acres; so that the farms will consist of 67, 80, 134 acres, or any

larger quantity, as may be agreed on.
"The company's manager will point out five portions of freehold land, each equal to the quantity to be leased, and from them the tenant may select one The yearly rent will be 4s. per acre, during the first period of seven years—5s per acre, during the second period of seven years, and 6s per acre, during the

third period of seven years.

"In order to provide for the due cultivation of the farm, every applicant should possess a small amount of ready money, to be deposited (on signing the agreement) with the company, in London, and for which (without any deduction) an order will be given on their manager in the colony The lease will stipulate, that the amount shall be expended solely in improving the land, and the lowest sum recommended to be thus deposited as farming capital, for a farm of 67 or 80 acres, is £150, and for a farm of 134 or 160 acres, £300 It is advisable, however, that every tenant should have, either from his own resources, or his friends' assistance, nearly as much capital besides, as he must incur expenses as much capital bestupes, as he much much expenses for outfit, reaching the ship, purchasing implements, freight of extra baggage and stores, &c., &c.; and ought to have a small amount available for use, on his landing in South Australia To accommodate settlers possessed of limited means, the company will not object to two partners being associated in a lease, provided their respectability and other qualifications be ascertained; and should the tenant need assistance to erect farm-buildings, or to fence his land, the company will aid him with an advance proportionate to the capital expended by him on the farm, for which advance the rate of interest current in the colony will be charged.

"This advance, or loan, will be made after the approved expenditure upon the farm of the capital deposited by the tenant, and may be repaid by instalments; after repayment, the tenant will generally have a right, at any time during the lease, to purchase his farm, with all fixed improvements, The price of purchase will be specified in the lease, and will vary according to the period at which the right is claimed."

A clause is inserted in the lease, "giving the farmer, in the event of his being dissatisfied with all the portions of land offered him by the colonial manager, the option, within a specified limited time, of cancelling the engagement, on payment of the trifling expenses incurred."

The following is a summary of the revenue

for the last year:—	
Rental of the town property	
Ditto of port buildings, and receipts from wharf	
Ditto of country lands	6,648
Profit on sales of land—town, port, and country	3,107
Net proceeds of wool	5,662
Sales of sheep to the butchers, including value of those killed for rations	1,839

Total . . . £25,105

The total current expenditure in the colony, exclusive of that connected with the mining operations, was as follows:—

Salaries and wages in Adelaide				£958	
Miscellaneous charges there .				429	
· ·				;	£1,3
On account of the sheep				٠.	5,2
Ditto of the town and port proper	ty	and	c	oun-)	1.0

£10,310

As population increases, and the prosperity of the colony is augmented, there will of course be a proportionate improvement in the value of the property of the South Australian Company.

The rental received by this company, for town, port, and country lots, during the past six years, has been—1844, £5,984; 1845, £5,988; 1846, £7,084; 1847, £8,542; 1848, £11,034; 1849, £14,496.

PRESENT POSITION OF SOUTH AUSTRALIA.

—The details given in the previous pages testify that this fine province, after passing through the ordeal of inordinate land speculations in 1836, '7, '8, '9, and of mining speculations in 1845, '6,'7, has now attained a sound position; and that its prosperity, at length established on a solid basis, may be reasonably expected to steadily increase.

The extraordinary height to which the land mania had arrived, may be seen from the following data. The injurious and enervating effects need no comment; it needed all

the inborn energy of the colonists to bear up against them; yet they did so right :nanfully, and, by the blessing of God, with success.

Early in the year 1838, Mr. R. Fisher sold an acre in Gouger-street (No. 387) for £410; the original cost in March, 1837, was £8 10s. In 1839, Mr T. Y. Cotter, sold halfan-acre (No. 144 in Grenfell-street) for £755. The cost of the acre lot, in the previous year, was about £10. Mr. D. Macfarlane purchased one acre from Sir James Malcolm. in Rundle-street, nearly opposite Messrs. Russell and Freeman's warehouses, and having upon it buildings over-estimated at £500, for the sum of £2,000. Mr. Thomas, the government printer, sold one of his 137 acre sections, on the Torrens, about three miles from Adelaide, for £1,300 cash, the section cost him £80, in 1836. Flaxman sold, to the German community of Klemzig, 2,000 acres, of a special survey on the Para river, for £20,000. Suburban sections, at Hindmarsh and Walkerville. which sold in July, 1838, for £10 an acre. brought, in 1839, from £45 to £100 per Even at Port Lincoln, allotments, that cost the previous year £20, sold for £120, and £300 were refused for half an acre water frontage.

The bubble of high prices for land burst, and the people betook themselves to the steady pursuits of industry. They cultivated the soil, obtained ample returns for their labour, but found no market for their surplus produce. In 1844-5, copper and lead ores were discovered, and a mania arose for mining operations, by which many have suffered considerably, and were obliged to sell their lands. The following is a return of the amount of mortgages on land registered during the years 1844, '5, '6, and '7:—

Lent on	1844	1845	1846	1847
Town lands Country lands Town & country lands	13,860	£5,434 6,997 30	£5,089 30,651 1,500	27,308
Total	20,038	12,462	37,240	34,041

The hability by bills of sale, judgments, and warrants of attorney, registered during the years 1844, '5, '6, and '7, was—

Securities	1844	1845	1846	1847
Judgments Bills of sale Warrants of attorney	16,395	12,983	49,659	£20,412 22,229 9.39

Total. . 22,133 23,761 70,879 43,581

The number and nature of writs which of South Australia during the years 1844, passed through the sheriff's office during the '5, '6, and '7 years 1844, '5, '6, and '7, were-

Nature of Writs	1844	1845	1846	1847
Capias ad satisfacien }	11	20	14	10
Capias	10	6	11	13
Fieli facias	22	30	24	28
Habere facias posses-	_	1	_	3
To levy fines	1		2	9
Habeas corpus	i	-	_	_
Attachment for con- tempt	1	-	3	_
Total	46	57	54	56

The following is a return of the number remarkable evidences of the welfare of this of fiats in insolvency issued in the province promising section of the British empire.

On Petation of	1844	1845	1846	1847
Creditors Imprisoned debtors Debtors at large .	2 8 —	1 13 12	 6 10	2 12 7
Total	10	26	16	21

All accounts now represent a more steady industrial progress in mining, as well as in agriculture, and I doubt not that every succeeding year in which the facts may be registered, in continuation of the accompanying comparative tabular view of the state of the province, will exhibit yet more

General Condition of South Australia at the close of each year since 1840

	2000 40 2000 2000 2000 4000 4000 4000 4									
In the Years	1840	1841	1842	1843	1844	1840	1846	1847	1848	1849
Inhabitants in the Province	14,610			17,366	18,999	22,390	25,893	31,103	40,778	50,000
Do in Municipality of \\ Adelaide	8,489			6,107		7,413				
Do Rural Districts	6,121			11,259		14,977				l
Public houses in Adelaide, Port Adelaide, and Al bert Town	70	67	44	34	37	45	58	66		
Do in the Country	37	38	37	33	33	40	60	66		l
Convictions for crimes and misdemeanours	47	37	36	31	21	22	40	31	53	
Flour Mills			}	16	21	24	26	25	25	1
Manufactories	4			31	30	59	44	51		1
Acres in Cultivation	2,503	6,722	19,790	28,690	26,918	26,218 }	33,2921	36,4401	48 917	1
Value of Exports of Colo nual Produce in £	15,650	31,826	29,079	66,160	82,268	131,800	287,009	275,115	465,878	374,156
Amount of Government	169,966	104,471	54,444	29,842	29,453	32,099	37,207	58,979	80,129	82 638
Do Revenue in £	30,199	26,720	22 074	24,142	27,878	36,182	48,017	67,027	82,847	94,200

Note—In 1849 the immigrants to the colony were —from Great Britain, 12,501, British Colonies, 2038, Foreign Countries, 1,627—total, 16,166 Departures from the colony to Great Britain, 131, British Colonies, 2,393, Foreign Countries, 170—total, 2,694

It may here be observed, that in some returns, the proceeds of the land sales are included as revenue, in others they are excluded. In the statement at p 695, the land revenue is excluded. A document laid before Parliament on the 5th July, 1850 (No 511), gives the undermentioned financial statement of the expenditure for nine years ending in 1848 —

Shipping at Adelaide in 1849

Countries		Inw	ards	Outwards		
Countries			No	Tons	No	Tons
Great Britain . British Colonies Foreign States	:	:	95 165 17	46,507 28,173 5,988	25 209 38	9,747 51,738 13,812
Total	•	•	277	80,623	272	75,297

Year	Ordinary Reve nue (fixed and incidental)	Bills drawn on her Majesty's Treasury	Bills on the Colonization Commissioners	Proceeds of other Bills	From Land Sales	Loans and Transfers from Land Fund	Total.
1840	£31,879	_	£129,273	£4,990	_	£9,955	£176,097
1841	28,550	£27,154	23,853	3,000	£2,602	5,692	90,851
1842	25.034	36,607			17,830	_	79,471
1843	24,779	6.252		l —	411	200	31,642
1844	27,879	2,475		l		3,587	33,941
1845	35.574	_		l —	l	15,609	51,183
1846	48,018				_		48,018
1847	67,028	l —		l		_	67,028
1848	82,912		l —		-	_	82,912

BOOK V.—WESTERN AUSTRALIA

CHAPTER I.

POSITION, AREA-AND EARLY HISTORY OF SETTLEMENT.

This division of Australia, generally known as portion of the island-continent situated to the westward of the 129th degree of E. long, and extends between the parallels of 13° 44' and 35° S.; is bounded on the south by the Pacific, on the west-north-west by the Indian Ocean, on the north by the Arafura Sea. and on the east by the meridian line above-The length from north to south is computed at 1,280 miles, and the breadth from east to west at 800 miles; the area is about 1,000,000 square miles, or more than eight times the size of the United Kingdom of England, Wales, Scotland, and Ireland.

History.—The "Swan River Settlement" has been a bye-word and a reproach, frequently cited by the advocates of the socalled Wakefield system to illustrate the evils of a different plan of colonization, while defending themselves from the blame so unsparingly bestowed upon them during the period of distress and depression under which South Australia laboured In the previous book I have expressed my conviction, founded upon the facts therein stated, that the latter colony could not, either in its prosperity or its adversity, be fairly used as a general argument on one side or the other; it remains to be seen whether the Swan River settlement in its turn presents any tenable ground for the sweeping assertions in support of which it is adduced, mainly on the score of its having been "a complete failure."

Even were this the case, it would not necessarily follow that the original plan was the sole cause of so unfortunate a result, for the grievous errors and inconsistencies by which the practical working of the most carefully-framed human system may be perverted, and the very existence of a colony endangered, is painfully evident in the early history of too many British colonies, though counterbalanced by the energy, the industry, and the sound principles of government apparently inherent in the minds of the settlers themselves.

In the present instance a succinct account the "Swan River" colony, comprises all that of the history of the Swan River settlement will furnish data on which to found an opinion of how far the stigma attached to it as a total failure is really merited, and the causes to which that failure, or, on the other hand, the slow advances which it is admitted. even by its best friends, to have made, can be fairly attributed.

The term Swan River was given to this portion of Western Australia by Vlaming, a Dutch navigator, who discovered it in 1697, and found in the neighbourhood many black swans. In 1801, the French corvette Naturaliste visited this coast, and M.M. Bailly and Heirisson, on 17th June, entered the river Swan in a cutter, observed large flocks of black swans, pelicans, and parroquets, and were surprised, after three days' explorations, with the forests and geological formation of the country.

Public attention was first directed in England to Western Australia by Captain (now Sir James) Stirling, R.N., who, when in command of H.M.S. Success, made a report, dated the 18th of April, 1827, pointing out the advantages of our occupying this portion of that vast island, and thus prevent the execution of a project then entertained by the French government for the formation of a Gallic Australian settlement.

Early in the year 1829, Captain Freemantle, R N, of H M.S. Challenger, hoisted the British flag near the entrance of Swan River, and took formal possession of the territory on behalf of the British crown, in the name of his Majesty George the Fourth. A portion of the country now included in the limits of Western Australia, situated on the south coast, and termed King George's Sound, was occupied in 1825-6, by a detachment of troops and persons sent from Sydney under the command of Major Lockver. This detachment was withdrawn in the year 1830-1.

It was generally understood that his Majesty's government would not undertake

at the public cost the formation of a settle- in fee simple, until the settler had proved, to ment on the western coast, a proposition the satisfaction of the Lieutenant-governor. was therefore made on the part of Thomas that the sum required (viz. 1s. 6d. per acre). Peel, Esq., Sir Francis Vincent, E. W. had been actually expended in some invest-Schenley, Esq., and others, to further the ment, or in the cultivation of the land, or in views of government in founding a colony solid improvements, such as buildings, roads, at little or no expense to the mother country. These gentlemen offered to provide shipping for the conveyance of 10,000 British subjects within four years from the United Kingdom to the Swan River, furnecessary, and to maintain three small vessels running to and from Sydney, as occasion might require. They estimated the cost of conveying this number of emigrants at £300,000, or £30 per head, and required in return an equivalent grant of land at the rate of 1s. 6d. an acre, making 4,000,000 acres, out of which they would engage to provide every male emigrant with no less than 200 acres of land, rent-free. This project fell to the ground owing, I believe, to the mability of the proposers to satisfy the government as to the adequacy of their means of carrying it into effect, and another plan for the execution of the same object was issued in December, 1828, from the Colonial-office, of which department Sir George Murray was then the chief.

According to this project no expense was to be incurred by the government, either in conveying emigrants, or supplying them with provisions on their arrival; but intending settlers reaching Swan River before the close of the year 1830, were to receive in the order of their arrival allotments of land, rent free, at the rate of forty acres for every sum of £3, which they could prove themselves to the satisfaction of the Lieutenantgovernor, prepared to invest in the improvement of the land. Those who should incur ment might then determine. the expense of taking out labouring persons were to be entitled to an allotment of land, £20,000, by the late Mr. Solomon Levy at the rate of 200 acres, considered equivalent to £15 for the passage of every such person, without reference to any other grants three years old; eighty acres for every child above six, up to ten years 120, and child above six years old; and 120 for exceeding that age and upwards 200 acres every child above nine, and under ten years for each person conveyed to the colony.

or other works of that kind.

Any land, thus allotted, of which a fair proportion, at least one-fourth, should not have been brought into cultivation, or otherwise improved, to the satisfaction of the nished with provisions and every other local government, within three years from the date of licence of occupation, was to be hable to one further payment of 6d. per acre for all the land not so cultivated or improved, into the public chest of the settlement; and, at the expiration of seven years more, so much of the whole grant as should remain in an uncultivated or unimproved state was to revert absolutely to the crown. Every grant was likewise to involve the condition, that, at any time within ten years from the date thereof, the government might resume, without compensation, any land not then actually cultivated, or improved, as before-mentioned, which might be required for roads, canals, or quays, or for the site of public buildings.

Under the head of investment of capital, his Majesty's government agreed to include stock of every description, labourers, provisions, all implements of husbandry, and other articles applicable to the purposes of productive industry, or necessary for the establishment of the settler on the land; the amount of any half-pay or pension receivable from his Majesty's government was also to be considered as so much capital. After the year 1830, land was to be disposed of to those settlers who might resort to the colony on such conditions as his Majesty's govern-

Mr. Thomas Peel, aided, to the extent of (then of the firm of Cooper and Levy, of Sydney and London), undertook the responsibility of making the first efforts for of which they might become possessed. In the foundation of the colony. Mr. Peel was the class of "labouring persons" were in- to receive 250,000 acres, on condition of cluded women, and children above ten years taking out 400 emigrants, with liberty to With respect to the children of labour- extend the grant to 1,000,000 acres, previous ing people under that age, it was proposed to the year 1840, by receiving 40 acres for to allow forty acres for every child above every child above three years, 80 for every

Colonel Latour also availed himself of the The title to the land was not to be granted governmental terms, took out settlers stock, &c., and became entitled to a tract of land of The settlers were landed on the beach, in considerable extent.

At the first glance it may appear that this extensive tract was granted on very easy terms, but it will not be thought so when filled with hostile savages. the circumstances of the case are duly considered. The estimated cost of the conveyance of an adult from the United Kingdom to the west coast of Australia was then about £30; no supplies were procurable on the spot, and the distance from Sydney (1,134 miles), together with the difficulty of doubling the south-west coast from the eastward for six months in the year, rendered the establishment of a colony at the Swan River twenty years ago an extremely expensive and arduous undertaking, and a very different matter to the creation of settlements at Port Phillip and Adelaide eight years later. To these latter places it must be remembered that sheep, cattle, and horses were driven overland at a comparatively small cost from the southern pastoral districts of New South Wales by the same route, and by a short sea voyage from Van Diemen's land; surplus labour was also obtained from the older colonies, whereas stock brought into Western Australia was necessarily imported by sea, and it was estimated that each sheep, including freight, insurance, and allowing for losses, cost the colonists £20

By the exertions of Mr. Peel, of Colonel Latour, and other gentlemen, his Majesty's government was enabled to announce that a settlement would be formed on the west coast of Australia; Captain Stirling, R.N., was appointed civil superintendent, with niture, and other goods. authority to select a grant of land for himself to the extent of 100,000 acres; and officers on the civil establishment of the early in the year 1829, a number of emigrants left England to form the new colony. ray to receive assignments of land on the The government of that day were certerms of importation of property which were tainly to blame for the want of forethought open to the public. which marked this stage of the proceed- military officers who engaged to return to ings; no survey of the land had been the settlement at an early period with the made, nor any inquiries as to its resources; property necessary to qualify them to reno system was organized, no public or corporate body in England was responsible granted, and the territory so selected was for the due management of the expedi- reserved for a considerable period. tion, and the consequences of these omis- many of the settlers who arrived in 1829 sions were most distressing. a secure anchorage had been ascertained.

* On the 1st June, 1829, the Parmelia transport arrived at Swan River, with Captain Stirling as chief, and several of the government officers for the new arrived, with colonists, stock, and merchandize In colony On the 8th June, H.M.S. Sulphur arrived, October nine vessels reached the Swan River, with with a detachment of H M. 63rd regiment, under the settlers and stock; in November, two ships; and command of Captain Irwin. On the 17th, the first, December the Gilmore, with Mr. Peel and 170 paspublic proclamation was issued, and the appointments' sengers.

mid-winter, in the neighbourhood of a bare limestone rock, the country around devoid of agricultural or pastoral capabilities, but The settlers began to arrive in the middle of the year 1829,* and by the end of the same year, twenty-five ships had reached the new settlement: the number of residents were stated to be, 850; of non-residents, 440; number of cattle, 204; of horses, 57; of sheep, 1,096; of hogs, 106; and the value of property giving claims to land, was quoted, during these few months, at £41,550; the value of cargo left by ships, up to the end of December, was £50,428. In 1830, the number of immigrants increased; in January, 6 vessels arrived; February, 5; March, 4; April, 1; May, 6; July, 2; August, September, and October, each, 1; November, 2; and December, 1 = 30. The number of settlers brought by these ships was, 1,125; and the cargo left at the new town of Freemantle by them, was valued at £144,177. In 1831, the arrivals were less frequent, and the vessels numbered only 17; and after the first quarter, 1832, the immigration of persons and property ceased, except so far as related to the friends and funds of persons previously established in the colony. During this period, the amount of property introduced into the colony by the immigrants, on which applications for land were based, amounted to £120,000, and consisted of live stock, implements of husbandry, provisions, wearing apparel, fur-

Officers of the army and navy, and the colony, were authorized by Sir George Mur-To some naval and ceive allotments, permission to select land was Not even and 1830, on expressing a desire to possess themselves of lands in favourable localities, of the official authorities notified Calista, St Leonard, and Marquess of Anylesea

in their possession, were informed, "that the official regulations. ten thousand acres is reserved for Captain A.; that six thousand acres to Lieutenant B.; that five thousand acres to Mr. C.;" and so on, over the best situated applotments. Between June, 1829, and the close reserved for, civil, naval, and military officers, was as follows:—Civil, 19 persons, 162,062 acres; naval, 16 persons, 33,680 acres; mili-tlemen could, of course, leave their ships, also reservations for 15 private individuals, remained unoccupied and unassigned. of 60.880 acres.*

crown, selected and reserved for themselves. In this list the governor (Sir James Stirling) the colony. positions. 1

The colonial secretary received 5,066 storekeeper, 5,000; surveyor-general, 5,600; collector of revenue, 5,000; colonial chaplain, 5,020; civil engineer, 4,400; draftsman, 2,560; clerk in survey office, 1,280; and a Captain Butler, whose name appears

* See Parliamentary Paper, No 685, of 6th August, 1838, for details.

† It is said that the colonial authorities of 1829 gave the official servants of the crown who went out to found the Swan River colony, profuse grants of valueless lands, as compensation for the small salaries awarded to them.

‡ It 1s, however, due to Sir James Stirling, who possesses a high character in his profession, to state that great credit is due to him for the manner in which he surmounted the errors committed in the early proceedings of the colony After the first disasters, he infused a new spirit into the desponding settlers, and it is mainly owing to his perseverance and unconquerable determination to succeed, that the place was not utterly abandoned.

§ Mr. Peel was ruined by his exertions to promote the establishment of the colony, at its commencement, and on 31st March, 1847, he was still

conformable to the amount of property then property into the colony, in conformity with

Among the naval grantees were the names of Captains Dance, of H.M.S. Sulphur, and Freemantle, of H M.S. Challenger, each 5,000 acres; and Sandilands, of H.M.S. Comet, 2,560 acres. Lieutenants, mates, of 1831, the quantity of land assigned to or masters, and surgeons of those vessels had grants appropriated to them, varying from 1,280 to 3,840 acres. None of these gentary, 11 persons, 30,862 acres. There were and most of the grants were reassigned, or

60,880 acres.*

Among the military grantees were capThus nineteen of the civil servants of the tains Irwin and Mackie, of the 63rd regiment, 10,000 acres: Deputy Assistant-comnaturally out of the best lands, applotments missary-general Lewis, 5,012 acres; Lieutewhich averaged to each about 8,530 acres + nant Dale, 63rd regiment, 448 acres. Among the private individuals, for whom 60.880 stands marked for 100,000 acres, which he acres were reserved, was the name of Mr. received by special award from Sir George Gellibrand, for whom 10,000 acres were re-Murray, then her Majesty's secretary for served, on the promise of his importing into This immense grant was the colony a sufficient amount of property selected in different places, and is stated to entitle him to the selection. The other to have been shifted from time to time, reservations varied from 3,000 to 9,000 acres. according to the prospective value of new Moreover, in the years 1829, '30, and '31, there were reserved for townships nearly 100,000 acres (98,590). For the town site acres; harbour-master, 7,592; colonial sur- of York alone, 38,400 acres were reserved; geons, 5,000 each; colonial naturalist, 5,000; for Plantagenet, 17,000; for Clarence, 7,680, for Perth, 3,840. London, with upwards of 2,000,000 inhabitants, does not cover, probably, more than ten square miles = 6.400

With these antecedents, it would have among the civil officers, 2,560 acres. It is been difficult for men & unconnected with presumed that all these civil officers brought government, and unaided by public support,

> =£1,372, which was contiguous to the town site of Rockingham; the said block containing the deepest water-frontage in Mangle's bay, on which the town is situated Major (now colonel) Irwin, who has laboured zealously for the benefit of Western Australia, gives Mr Peel credit for introducing men of good conduct, who were well acquainted with farming pursuits and handicrafts, and for bringing into the colony, towards the fulfilment of his contract, a population of 300 souls, with a property of £50,000.

Another instance of great hardship is recorded in the correspondence of the colonial office. Captain Bannister, formerly high-sheriff of Van Diemen's Island—an officer of great energy and considerable talent—accomplished, in 1831, after enduring much danger and privation, an exploratory over-land jour-ney, in seven weeks, from Perth to King George's Sound; yet this gentleman declares himself to have in debt to her Majesty's government, £3,828, incurred by introducing a valuable body of men into
the settlement. In 1847, the acting governor, A Mr. William Wise introduced property into the
with a view to the liquidation of part of this debt
te crown, agreed to accept the surrender of
the crown, agreed to accept the surrender of
the crown, agreed to accept the surrender of ready money, which gave no claim for land, a block of land of 1,372 acres, at 20s. per acre and accordingly, under the regulations of December, to have formed a colony, even in the loveliest and most fertile land on earth; and it is surprising that the attempt was not abandoned in the outset. The frightful struggles, which the settlers of 1829-30 had to undergo, are described in a "monster address," signed by nearly every non-official settler (including the magistracy, &c.), and presented to the governor of Western Australia, by a deputation of the leading gentry, in the presence of the members of the Executive and Legislative Councils. This address was transmitted by the governor to Earl Grey, and may be found at length in the Parliamentary Emigration Papers for 1849-50.

The grievances therein complained of, deserve mention, not only as forming a chief cause of the slow progress made by the colony during ensuing years, but also as affording a valuable example of what should and should not be done on similar occa-The errors in this case appear to have arisen chiefly from sheer carelessness, and the most unaccountable want of forethought on the part, it would appear, of all concerned. Had the proposal been to colonize one of the Channel Islands, instead of to form a settlement in the southern hemisphere, matters could hardly have been taken more easily.

1828, was officially informed by the colonial secretary, that he "had entitled himself to a grant of land to the extent of 26,453 acres." Mr. Wise received his "location order," which cost him, in actual outlay, £1,001 5s. 9d.; there was no surveyed land of which he could make sure, and after the waste of the substantial property he had introduced into the colony, Mr. Wise, for the sake of his family sold his "location order" to Captain Bannister, and proceeded to Van Diemen's Island. But from that day to this, Captain Bannister has never been put in possession of the land to which he had thus become entitled, and most probably will never receive an acre or a shilling for his property.—(See correspondence with the Secretary of State for the Colonies in 1836-7)

* The following extracts from the address before alluded to, paint in glowing language a vivid, but, it is to be hoped, somewhat exaggerated picture of the suffering which attended the foundation of the Swan River settlement .

"The entire material of a settlement, the official staff, settlers, property, and live stock, were hurried out to an unknown wilderness before one acre was surveyed, before one building had been erected, dents, and property, into the colony while in this

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The manner in which the terms for the grant of land were framed rendered its acquisition dependent on arrival in a stated time, and induced the emigrants to bring out in excess servants, live stock, machinery, &c., of which each took more than he required. The season selected for their arrival, in a country known to contain hostile natives, was the month of June (there midwinter). Not a shed had been provided for their reception; not an acre had been surveyed; and, as before stated, even a safe anchorage had not been ascertained. Several ships were dashed to pieces on the beach, which was crowded with masses of human beings - families with infant children, ladies, civil officers, sailors, soldiers, and farmers; while blood and cart horses, milch cows, prize bulls, sheep, goats, poultry, pigs, pianofortes, ploughs, mills, barouches, casks, furniture, bedding, tools, and seedcorn lay heaped together, drenched with torrents of rain.

The confusion was complete; the leaders of the enterprise were equally at a loss with the settlers to know what to do or advise. Some demanded to be led to their lands: others gave way to despair: servants attacked the spirit-casks; masters followed their example.* The farmers were told they must wait, wait till lands were dis-

-its sole edifices crowded, hurried, and neglected tombs-its only inhabitants corpses, the victims of disease, starvation, and despair — the sea-beach strewed with wrecks—the hills and borders of the rivers studded with deserted and half-finished buildings-bear witness to these consequences, and speak of brave men, delicate females, and helpless children, pershing by hundreds on a desert coast from want of food, of shelter, and even of water, and surrounded by armed hordes of angry savages. It were wholly impossible, sir, to estimate the vast amount of property of every sort buried for safety in the sands of the shore, and never again recovered, or the multitude of most valuable and high-bred stock of all descriptions, whose skeletons whitened the beach or filled the morasses they had been forced to enter in the desperate search for even fresh water. Can we wonder, then, that thousands rushed from such a scene with the relics of their capital, to people other colonies; or even that numbers sat down in the frenzy of despair beside the spirit-cask, never to rise from it alive? Can we wonder that the name of Swan River should, throughout the civilised world, become identified with failure and surveyed, before one binding has been formed as to the proper run, and that the survivors of such carnage should scene of their labours, before the slightest knowledge be left alone by their fellow-men to carry on an had been obtained of the soil, climate, products, or enterprise so dreadfully begun p Or may we not unhabitants. Nay, further, it was absolutely made rather indulge in a justifiable pride in the resources a condition of the grants of land, that the emigrant of a country and the energies of a people who, from should not only arrive, but bring his family, depen- such a commencement, have, under Providence, elaborated even the civilization which your excel-lency may already see around you? But these ter-"The ghastly spectacle of the town-site of Clarence nble scenes, brought on by the unjustifiable attempt sterling of property was destroyed; the live stock perished; many died; and numbers, as soon as practicable, fled from this scene of ruin, carrying with them the wreck of their fortunes. I have been assured by a colonist of high character, and holding an official position, that fifteen years elapsed before the surveys were sufficiently advanced to enable a settler within five miles of the capital to put up a boundary fence.

Mr. James Walcott, one of the first settlers, says-" I was, in common with many others, a severe sufferer, from the fact of the government being unable to redeem its pledge to the colonists arriving in 1829 and 1830 at the Swan River settlement. It was not till several months after my arrival that I was offered a very small grant on the Swan, by the local government, and then only in consequence of its being vacated by another party. In the mean time most of the stock imported had died at Freemantle, where there was no keep for them-in fact, of actual want. I may say, with safety, that one-half of the property I imported was sunk before I could get a location which offered any prospect of success."

Subsequently, when the few, after gallantly penetrating the forest, and discovering good farm lands, had raised the drooping spirits of the rest, and a chance arose that a fresh body arriving, with new capital and stock, might do well, the land terms were changed to the same as the old-established colony of favour. Sydney, where no hazards were to be run. Almost at the same time companies arose to push forward other colonies, each one naturally vaunting the advantages of its own, and disregarding, if not disparaging the ments of the rest; and the neglected little settlement of Swan River was soon forgotten, and left to establish the foundation of an infant nation

to hurry a colony into existence before steps had been taken for its security, are far from being the termination, or even the most injurious, of the errors which have plunged us into our present difficulties. At the very time when the unhappy immigrants were crowding on the beach, wasting and losing all their means, the conditions of their immigration told them that they had but a limited time to select and improve their grants. And more monstrous still, this time was actually expired before these grants were surveyed.

"A minor, but yet very ruinous error, consisted in limiting the investments of capital, which produced a vast accumulation of the same articles, and

covered, and then wait until they were unaided by aught but the resources of its surveyed. In fine, a quarter of a million country and climate, and its own patient but over-taxed energies. The effect of the nonmeans of the immigrants dissipated; their arrival of fresh immigrants in a colony so peculiarly constituted may be readily conjectured. The hired labourer rapidly acquired the means of working on his own account, and became desirous in his turn of obtaining assistance, and the ruin of those who depended upon hired labour was the consequence. And here hes the secret of the so-called failure of Swan River. In one, and in only one, respect has it really failed, and that is in attracting emigration; in almost every other it has succeeded. Its trade has increased, crime among the Europeans is almost unknown, and its presentwho are in general its original settlers—have in proportion to their numbers, effected a creditable extent of tillage, and evinced a very praiseworthy spirit.

Every one at all practically acquainted with the subject of emigration, is aware of the immense influence exercised by the powerful London companies in favour of the colonies in which they are respectfully inter-Is it, then, strange that the Swan River settlement, unconnected with the government, and unsupported (excepting for a brief period by the Western Australia Company) in the mother country, should have proved incapable of attracting the stream of emigration which it was the object of so much combined exertion to direct elsewhere? Besides, the miseries endured at the foundation of the colony, naturally gave rise to a strong prejudice in its dis-

To return to the proposition stated at the commencement of this chapter, this present instance would appear to be one of the many in which the error hes not in the system itself, but in the absence of the needful preparation, as well as careful supervision necessary to its successful working. Any colony, equally neglected at home, and

total want of others, and of money. The majority of the imported articles could not be of use for some years, and each settler was induced to bring more than he required, in hopes of sale. The want of storehouses caused the destruction of all these. As if sufficient means had not been used to destroy our capital, the system of location duties was added; by which the settler was compelled to prove that he had wasted 1s. 6d. per acre in permanent improvements. The result was, the erection of multitudes of cottages, fences, &c., in remote, and at the time, wholly uninhabitable places, which were, of course, allowed to become the prey of the elements, as soon as the expensive farce had been performed."

founded with as reckless improvidence with regard to surveys and shelter, and preliminary preparations, must, like Swan River, have been crippled, if not crushed, whether established on the "sufficient price" or any other system. Even the large grants of land referred to in a previous page, would not in themselves have proved injurious but for the imprudence of the authorities in not requiring sufficient security for the fulfilment of the annexed conditions; even as it is they appear to have exercised in some respects a favourable effect by giving a motive for continued exertion much needed under the circumstances.

It is pleasing to know, as will be shewn in the concluding observations on the colony, that the stationary state is passed, the development of the resources of the territory has commenced, and the tide of immigration is now setting in towards Western Australia.

With respect to the announcement relative to the disposal of crown lands in Western Australia, from the Colonial-office, December, 1828, 13th January, and 3rd February, 1829, granting land on certain conditions (see page 710) new regulations were issued from the Colonial-office, Downing-street, 20th July, 1830, by which 100 acres, valued at £15, were allowed for every labourer, including women and children above twelve years of age; 60 acres for every child between twelve and six years of age, and 30 acres for every child under six years of age. Lands allotted, if unimproved, to the extent of 3s. per acre, in two years, to be hable to quit-rent of 1s. per acre; if still unimproved in two more years, to revert to the crown, or be subjected to a higher quit-rent. The proportion of "capital," i.e. of stock, implesettlers to receive land, was raised from 1s. 6d. to 3s. per acre. Subsequently the land sales' regulations adopted for the older Australian colonies were declared to be in force in Western Australia, where land is now only purchaseable from the crown at the minimum upset auction price of 20s. per This high price has proved effective for the prevention of the sale of crown lands for according to the evidence of Mr. Lefroy (an intelligent Swan River settler), before the House of Lords, 24th March, 1848-"There were in 1844 certainly quite a mil lion of acres in the colony which could have been purchased for 3s. an acre." Much of this was probably poor land; and her Ma jesty's government, in a spirit of equity

gave the original grantees, who had taken p injudicious and sometimes unavoidable llotments, an opportunity of exchanging hree acres of bad land for one acre of good land. These "remission tickets" were tated in 1848 not to exceed £4,000 in The land alienated from the crown in Western Australia averages 350 acres for each man, woman, and child in the colony.

Before concluding this necessarily brief ketch of the origin of the colony, it is due o the settlement to notice the rise and fall of a company, whose failure has been unustly ascribed to the character of the country.

The Western Australian Association had ts origin in the meeting of an institution held in London, 23rd August, 1835, to watch over the interests of the colony. After several meetings and annual reports. a regularly organized joint-stock company was formed in 1841, under the auspices of Mr Edward Gibbon Wakefield (one of the directors of the corporation), whose object was to purchase a large quantity of land n the colony from the original grantees, Sir James Stirling and Colonel Latour [to whom 113,000 acres were assigned, 29th Sept., 1829], at a cheap rate, with a view of selling it at the rate of £101 for 100 rural acres and four town sections of a quarter of an acre each; the choice of the allotments and town sections to be determined by lot.

A township or city, termed Australiad, was to be laid out at Leschenault bay, "to extend over a thousand acres, exclusive of a reserve for public objects, such as quays, streets, squares, markets, churches, and pubhe gardens." About this period Captain (now Sir George) Grey returned to Engments of husbandry, &c., which qualified land, bringing accounts of the fine country he had discovered in the neighbourhood of Champion bay (see topography), and stating also the existence of a good harbour adjacent. Nearly at the same time, it was announced that the extensive grants to Colonel Latour were forfeited to and reserved by her Majesty's government. This news, united with the representations of Captain Grey, induced the Western Australian Company to change their plan, and attempt the settlement of the northern dis-The change, however, exciting considerable alarm, and the directors having offered to refund the capital of all who desired it, a large part of the subscriptions were withdrawn, and confidence in the enterprise paralyzed. Colonel Latour's claims eventually proved to be valid, but the evil arrangements and ground-plans sketched in caused by their supposed forfeiture was London, for others more in unison with the rrecoverable.

The chief commissioner of the company, Mr. Chfton, left England in 1841, with the first detachment of emigrants. On reaching Port Leschenault, on his way to the new district, he received such communications from the governor, and such information respecting the sup- posed Port Grey, and the country in its vicinity, as induced him of Mr. Clifton appeared in a fair way of to found the colony under his charge on the spot originally contemplated, in Leschenault

inlet, instead of at Port Grey.*

On the arrival of H.M.S. Beagle, Captain Stokes, accompanied by Mr. Clifton, proceeded to examine the territory concerning which statements so contradictory had been made; they sought in vain for the harbour, and described the country as unfit for the settler, being deficient in the three most necessary articles, water, timber for building, and food for stock.+ Subsequent examinations have proved that Captain Grey's statements were, nevertheless, correct, masmuch as there is a harbour now called Port Grey, and a fertile and extensive tract of country in its vicinity (see topography). But to return, Mr. Clifton, considering himself fully justified in the step he had taken, proceeded, with the counsel and concurrence of the local government, to establish the settlement on the shores of Leschenault

physical features of the country. The first emigrants, however, had been obliged to follow the previous arrangements, which were found so harassing and unsatisfactory, as to induce several to abandon their allotments and leave the company's lands, and settle elsewhere.

Nevertheless, the energy and perseverance ultimately triumphing over all local obstacles; the substantial advantages of the site he had chosen were becoming evident, and promised solid, though not brilliant, success, when the Western Australian Company suspended operations, dismissed its officers, and practically abandoned the enterprise, since which period it has retained little more than a nominal existence.

The names of the governors and acting governors who have administered the affairs of Western Australia since its foundation, have been :--

Captain Sir J. Stirling, R N (governor) 1st June 1829 Captain Irwin, H M. 63rd reg (acting) Sept. 1832 Captain Daniel, H M. 21st reg Sept. 1833 Captain Sir J Sirling, returned from Aug. 1834 England
John Hutt, Esq (governor)
Lieut.-Col. Clarke, K B. (governor) . . 2nd Jan 1839 Feb 1846 Died 6th Feb. 1847 7th Feb 1847

CHAPTER II.

PHYSICAL ASPECT—COAST LINE—ISLANDS—HARBOURS—RIVERS AND LAKES— GENERAL TOPOGRAPHY OF THE COUNTIES-GEOLOGY-MINERALOGY-SOIL-CLIMATE-WINDS AND TIDES.

WESTERN AUSTRALIA is not marked, like the provinces of New South Wales, and of Victoria, by lofty mountain ranges, nor, like that of South Australia, by deep gulfs or bays; or distinguished by any great river, such as the Murray. Sheltered from the tremendous roll of the Southern Pacific, and laved by the more placed waters of the In-

* See Mr. Clifton's Letter to Captain Stokes, published in the latter gentleman's Discoveries in Australia, vol. 11, p. 382. † Ibid. dian Ocean, the west coast, between Sharks' and Geographe bays, presents a comparatively regular and unvaried outline; comprising, nevertheless, many estuaries or inlets, some of considerable size and depth, but barred with sandbanks at their entrance, so as to prevent their being safe harbours for large ships.

The coast-line north of Geographe bay is bounded, for a distance of thirty to forty miles from the land, by a bank of coralline, or calcareous formation, such as is found into two distinct districts; the one, termed on the coast of Sicily. The bank of sound- the plain of Quartania, situated between the ings extends farthest off the north-west coast, Darling hills and the sea coast, stretching as eighty-five miles north of Depuch island from south to north for about 300 miles. (De Witt's Land) a bottom of fine white with a breadth of fifteen to twenty miles. sand was found at seventy-five fathoms. This plain is well wooded towards the coast, Between 19° 50′ and 20° 10′ S. lat., about 18 in some places low, of a coralline strucforty miles from the islands fronting the ture, and full of estuaries, lakes, rivers, and coast, there are soundings of 200 fathoms. streamlets. In other places the limestone Off the south point of Sharks' bay, in formation rises into eminences and hills, 26° 42' S. lat., soundings of grey sand were parallel to the coast-line, and nearly isoobtained in 137 fathoms, at thirty-seven lated from the surrounding country. To miles distance from the land. S. lat., twenty miles off Rottnest or Gar- country becomes more undulating, and den island, the soundings are seventy presents some singular ridges. fathoms.

west coast, at a distance of about twenty miles from it, and extends from about 35° the meridian of 116°, for above 400 miles, with an average breadth of forty miles, and a height varying from 1,000 to 1,500 feet. There are collateral spurs, which, on approaching the 32nd degree of latitude, appear to form extensive parallel chains, and are probably connected with more elevated mountains in the unexplored northern and north-eastern parts of Australia.

Captain Grey says that he discovered two mountain ranges; one, named Victoria range (see general map), at the northern extremity of the Darling range, and about thirty miles to the eastward of it, lofty and Darling, which at this point, where its direction is nearly north and south, is called Moresby's flat-topped range; and another, apparently thrown off in a westerly direction from the Darling range, about forty miles in length, from north to south, of a bare, sterile, and barren nature, and terminating seaward in Mounts Peron and Les-This ridge is called, after one of the Herschell's range; and one farther south is called Smith's range.

The Darling range presents the appearance of a mighty forest of magnificent timber, every available source of information, I have broken only occasionally by a few inviting succeeded in forming, as it were, a skeleton

In 32° the northward, towards Champion bay, the

The district to the eastward of the Dar-The distinguishing feature of the colony ling range, "the country over the hills," is a somewhat elevated and occasionally may be said to commence at King George's steep and rocky range, termed the Darling Sound, on the south coast, and run north Hills, which runs nearly parallel with the for 500 miles, over a varied territory, which in some parts has been compared to the county of Herefordshire, in England; in S. lat., near Point D'Entrecasteaux, along others, to the county Wicklow, in Ireland; and in the more northern parts, in the Toodyay district, to Switzerland. The extent of arable land in this division of the colony is very considerable; so lightly timbered as scarcely to offer any obstruction to the plough; and consists of a loamy soil, well watered, not subject to be materially affected either by heat or wet. The settled portion commences about the latitude of Perth, and extends north from 80 to 100 miles. Some settlers have, however, located themselves 100 miles farther, in a northerly direction.

Owing to the limited number of its setaltogether differing in character from the tlers, and the serious difficulties with which they have had to contend, Western Australia has been less extensively explored than the sister colonies described in the previous pages, and the knowledge acquired of its physical features is, consequently, yet more fragmentary and imperfect; the difficulty, moreover, of framing a correct though brief general view of the topography of this extensive and really valuable province, is matemost intelligent gentlemen in the Colonial rially increased by the contradictory state-Department, London, Gairdner's range. (See ments made by different explorers, for, as map of Western Australia.) Another ridge, in the case of the Geraldine district, the north and east of the preceding, is termed same region has been pronounced by one party, of exceeding fertility and beauty; by another, sterile, and absolutely unfit for cultivation. After careful examination of outline of the coast line and the country at The Darling hills separate the province the back, as far as it has been examined; but the details cannot be filled in, while anything fit for food, and, as was the case so much even of this portion remains imperfectly known.

The north-west coast line of Australia has been traced as far as Sharks' bay, in the general description of the island (see p. 382); and the inland features, so far as they were seen by Captain Grey, in 1838, have been also noted (p. 379).

Sharks' Bay (see map of the whole island), in 26° S. lat., is large, of easy access, and affords several safe anchorages, It was discovered by Dampier, on 6th August, 1699, and so named by him, on account of the large number of sharks seen there. A considerable portion of the land adjacent to this extensive inlet is yet unexplored; we continued unacquainted, even with the coast line, and it still seems to me probable (as I stated in my History of the Colonies, in 1834-5), that the outlet of a large river will ultimately be found in this neighbourhood.

Gascoigne River, nearly opposite Bernier island (see p. 382), and forming the southwestern extremity of Sharks' bay, was partially examined by Captain Grey, in 1839: but with few men and a couple of whaleboats, it was impossible for him to determine the character of the country, the extent of the river, or the depth of an adjacent inlet. The manner in which he was preserved through the perils of shipwreck, famine, and thirst, while driven about this wild coast, was truly wonderful. Nothing, as the gallant explorer himself says, could have saved him and his party, but the ever active and present care of Divine Provi-It appears from Captain Grey's examination, that the country to the northward and southward of the Gascoigne is low. covered with mangrove flats, and abounding in sand-banks, presenting, in fact, all the features of the embouchure of a great river. Near the sea-coast is a sandy, scrubby ridge, termed Lyell's range, apparently thirty miles in length. The plains beyond were examined for fifteen miles in a north-east direction, and found to consist of salt, mud, and moist sand, devoid of fresh water, and seemingly illimitable, the eye being too much affected by the mirage, to perceive their actual limits.

The Dutch commodore, Vlaming, visited this part of the Australian coast in 1667, boats, four or five leagues, amongst rocks the country were drowned, but no men nor near the sea.

with our English explorer, wherever they dug for water, the ground was salt supposed this river may have been the Gas-Vlaming came to another river coigne. near the preceding, ascended it for about a league, found it terminated in a round basin. and was entirely salt. The country was destitute of grass and trees. The point of entrance into the river was composed of a very red sand. In the bed of the Gascoigne The northern a fine white sand was found. mouth of the Gascoigne, where entered by Captain Grey, had twelve feet on its bar at low ebb tide; the bar once passed, there are three to three-and-a-half fathoms, in a land-locked creek, which is separated from the sea by a shifting bed of sand and mangrove swamps, termed Babbage Island, which forms the northern and southern mouth of the Gascoigne river.

The southern mouth of the Gascoigne (lat 24° 57') is completely free from shoals, and has seven feet of water on the bar at low tide: there is also a channel in it containing never less than this depth of water for about four miles, after which it is only navigable for small boats during the dry season. Large trees (termed snags, by the Americans) are firmly planted in the bed of the river, which renders the navigation difficult, especially at high water. In one part of Captain Grey's Journal (vol. 1. p. 384), he speaks, as before, of the "northern mouth of the Gascoigne having a very good passage with twelve feet of water at low ebb tide;" in another part (vol. ii. p. 120), he says, "the northern mouth is narrower and more shoal than the southern." The truth, however, is, as admitted by the frank and intelligent author, his examination was "hurried and imperfect," and the opinion above given must be received with caution. The vast masses of drift-wood, the large trees carried across the bay to Dorre island, the gentle slope of the country into the interior, and the immense bed of the portion of the stream seen, indicate the existence of a large river which drains probably a fine region. Plains of a rich reddish loam border the Gascoigne on each side, occasionally broken by low, gently rounded hills, composed of the same description of soil; fresh-water lagoons were found in diffound a river, and went up it with three ferent places, the country, even in the dry season, was covered with grass, and no terand shoals; saw much water inland, as if mination was seen of the good land, except

Immediately to the south of the southern mouth of the Gascoigne, a line of shoals commences at two to four miles from the coast, and runs with scarcely any intermission round the bay, so as to render the approach to this coast almost impracticable. A low spit about twelve miles south of the Gascoigne river, is termed Point Greenough, and between this point and the river there is a deep bay, the shores of which are low and thickly studded with mangroves, up into the country. Below Point Greenpreserving its low character, but thickly wooded with mangroves for eight miles, when a remarkable change takes place, the mangroves suddenly cease, and the low range of hills which extend southward along the coast and parallel to the shore, increases a little in height. Within about the distance of a mile, the mangroves recommence, miles, then runs south-east-by-east, forming a bay about four miles deep, the bottom of which appears to be lined with mangroves. After passing this bay, the coast runs southeast-and-by-south, the mangroves appear to be less numerous, and the low wooded hills approach nearer to the sea, the low shore is fringed with trees down to the water's edge, forming little green knolls of foliage. Farther south, to the Hamelin Bay and Freycinet Harbour, in the bottom of Sharks' bay, we know nothing certain.

Peron's Peninsula, about 200 feet high is a barren, sandy table-land, sloping away

to the southward

Dirk Hartog's Island, when seen by Captain Grey, looked exactly like a Scottish heath. There is good shelter for shipping and adjacent there is a guano island, and a

very rich mother-o'-pearl bank.

Steep Point, the western extremity of this portion of Australia, consists of lofty inaccessible limestone cliffs, hollowed into deep caverns by the action of the waves. The coast then trends to the south-east, is very uninviting, and consists of a high range o barren limestone hills, ascending gradually from steep cliffs, which form the coast-line The outline of these hills is monotonous they have a barren appearance, and are ren in places by deep rocky gullies, which run down to the sea.

Red Point, the western entrance of Gan theaume bay, is a bold circular headland four miles in extent. To the northward in a deep channel 80 to 100 yards wide,

of this promontory the country has a white sandy appearance; the coast-line consists of ow ridges of sand-hills; but inland there are said to be tracts of good pastoral and arable soil, in blocks of six to ten thousand acres-much of a rich alluvial character.

Gantheaume Bay, where the monotony s broken by the appearance of detached hills, although protected at the south end by a reef, has as heavy a surf breaking on it as on any other part of the shore. through which many salt-water creeks run inlet here is described by Captain Grey as "one of the most romantic and pichough, the shore trends south-and-by-east, turesque estuaries he had yet seen:" its hores abounded with springs, and were bordered by native paths, whilst the tricking springs, flowering shrubs, drooping foliage of several large sorts of casuarina, the number of wild swans on its placed bosom, and the natives fishing in the distance, imparted to the whole scene a quiet and charm to which he had long been a stranger. The the coast trends south-east for about five mouth of the inlet is protected from the ocean surf by a line of breakers and reefs. There are rich flats on each side of the estuary, which communicates with a deep valley, through which flows a stream called the Murchison, after the distinguished geologist of that name.

During an expedition in 1849 from Perth, the explorers found on turning to the south-west along the bed of that stream, that the right bank of the Murchison river had wide grassy flats, the stream forming large pools, some of them more than a mile in length; but with the exception of the flats on each side of the bank, the country is said to be poor and scrubby, destitute of trees, and the hills high and rocky, consisting of red sandstone, those to the west capped with limestone. It is in this neighbourhood that the enormous deposit of galena ore has been found in In some places the Murchison runs through almost perpendicular sandstone cliffs, 200 feet in height, broken at intervals by enormous fissures. It is not yet known whether the embouche of the estuary into which the river disembogues, is navigable from seaward; the estuary is about one-and-a-half miles long, by half-a-mile wide; the tide flows five miles up the stream, when it is obstructed by rapids, above which the river, so far as it has been traced, is a succession of long reaches of water, 100 vards wide, and extensive flats covered with reeds. The river continues from east-northeast, through a more level country, running

Murchison is supposed to take its rise in the December, 1849, for a cargo boat. hills, giving promise of a fertile region. A in this neighbourhood; a rock, heretofore this rock limestone was associated, the springs had a strong sulphureous smell, and the lofty broken character of the distant mountains, give a grand appearance to the scenery.

The country behind Gantheaume bay, proceeding in a south-by-east direction, consists at first of ravines and scrubs, next of elevated sandy downs; thickly clothed with banksia trees; then of open sandy downs; subsequently a rich limestone region occurs, with gently sloping hills and valleys, affording even in Aprilfair feed for sheep and cattle, with springs of water at intervals of every few hundred yards, generally situated at the edge of large clumps of trees. This description of country appears to be continuous in a south-easterly direction; on a southerly course a gravelly treeless table-land was found, in places covered with beds of clay, on which rested ponds of water, occasionally intersected by

thick scrub. According to Captain Grey, a fine fertile country, abounding in grassy valleys, rich plains, picturesque limestone ranges, running streams, and estuaries, stretches between the Murchison and Hutt rivers. It was more thickly peopled than any district previously seen; the native paths were broad and well beaten; the wells, ten to twelve feet deep, were executed in a superior manner, and the dwellings also were of superior construc-This observant traveller says, (vol. 2, p. 14), "It seemed certain that we stood in the richest province of South West Aus-

bordered by thickets of acacia and cypress. which he close to the sea coast, in the fer-Mr. Burgess, who visited the Murchison in tility of its soil, and the density of its native 1848, says, "We rode up the river about population, that we appeared to be moving seventy miles from our camp, and when we upon another continent." This region is turned back the river bed was nearly as situated between the parallels of 27° 30' and large as when we made it, but the water 29° 30': its principal river, the Hutt, disemwas quite salt." He thinks it would make bogues into a large estuary. A few miles a very good cattle-station, as there is plenty above the estuary the river separates into of summer food along the river, and plenty two branches, both of which were found of winter provender on an extensive lime-running in April, 1839. The other prinstone range of hills which lie to the north- cipal streams which drain this district are There are also a number of large the Buller and the Murchison. The entrance springs along its banks; game abounds. The of the latter was not found available in interior salt marshes. The Murchison valley valley of the Buller is divided into two is backed by some lofty and fantastic-looking equal portions by a granite ridge; the land on the left bank of the eastern branch has total geological change seemed to take place been found to be of "a very good grassy description, consisting of a range of granite unobserved in the south-west portion of hills, about ten miles north and south, two Australia, occupied the principal place; with miles wide." Water, in pools, and abundance of grass, exists on the eastern branch; further east, high and sandy level plains commence, in an abrupt line of sandstone slopes and hills. The valley is estimated to contain 10,000 acres of good grassy land, and 20,000 of inferior feeding country; the good land much broken into patches by that which is of inferior quality. Timber is scarce.

The Chapman River runs in a sandy channel, with small shallow pools; the land on the bank of the stream is indifferent and sandy for about a mile, when it rises into sandstone and granite hills, covered with excellent grass. The land upon its northern branch is not generally good, although some fine patches are to be seen. Mr. Burgess thinks there are 30,000 acres of good feeding and well-watered land on the north branch of the Chapman, and 30,000 acres on the south branch, but not so well watered.

In January, 1840, Mr. G. F. Moore, in the colonial schooner Champion, endeavoured, but in vain, to find a navigable entrance at the point laid down by Captain Grey as the estuary of the Hutt river. interior, where any of it could be seen, looked grassy; but the view taken was very limited and hurried. In December, 1849, Lieutenant Helpman, in the colonial schooner Champion, examined a boat harbour which he had previously discovered at the south end of the Hutt estuary, and found in traha, and one which so differs from the the channel, between the reefs, twenty-two other portions of it in its geological cha- feet water; the breadth, from the reef at racters, in the elevations of its mountains, the entrance to the dry sand beach, which is

very low and shelving, is about 200 yards, toward the sea, by another valley-in both The entire reef is about three-quarters of a The next position of importance on the mile long, extending in a north-west direc- coast, and indeed the best anchorage, tion, about one foot above water, thus keeping the boat harbour clear, which will Sharks' bay and Gage roads, (at the enbe found exceedingly useful for coasters trance of Swan River), is termeddrawing seven or eight feet water, or for Plenty of fresh water is found around by may be easily caught from the beach. ore of the newly-discovered rich mineral district, termed the Geraldine, may be shipped from this harbour, to which a good road may be made at an expense of £100.

The Bowes streamlet, near the Hutt, contains about 100,000 acres of good sheep country: the bed of the stream being filled with broad-leaved reeds, indicates a supply of water in the dry season. The country around exhibits a metalliferous formation. In October, the small brooks were all running strong, and the grass was then green. The hills are of gneiss, with granite and trap rock; the latter clothed with excel-

lent grass, of various kinds.

The country south of the Hutt river was examined during an expedition, in 1847, by Lieutenant Irby and two enterprising gentlemen, Messrs. Gregory, of the Western Australia surveying department, who, on 20th December, crossed the Chapman river two or three times, and found the country. at first, scrubby, but afterwards saw several fine patches to the eastward. On a course varying north and east the country was grassy; the soil of decomposed granite, patches of scrubby country occurred, then a good grassy district of about ten miles; clumps of York gum, sandal wood, jam and black wattle, were observed on the hills. Deep grassy valleys extended in a southern direction, and the country appeared to continue good, and well watered. In the north and west, the grassy region extended for at least ten or twelve miles, presenting to view about fifty or sixty thousand acres of sheep pasture, of a fine description.

At the stream called the Buller, near Champion bay, the country, for a distance of on the north-west coast, lat. 15° 20' S., and five-and-twenty miles, is bounded by a lofty chain of flat-topped mountains, with so lat. 15° 10' S. The drawings of these ranges regular an outline as to appear rather the given by Captain Stokes (vol. ii., p. 142), work of nature than of art. Between this present a striking resemblance to each other, range and a ridge nearer to the coast is in their contour as well as elevation. The a large and fertile valley, partially drained, view from the summit of Wızard peak is

and in the middle, for about a quarter of rise gently swelling hills and picturesque a mile, there is eleven to nine feet water. peaks, wooded in the most romantic manner.

(excepting among the Abrolhos), between

Champion Bay, situated in 28° 47' S. lat. even much larger vessels in fine weather, and 1° 9′ 20" W. of Swan River. The roadstead is sheltered from the south-west by digging one foot deep; fish abound, and Point Moore; but a heavy surf occasionally The rolls on the beach, extending from the bottom of the bay to the northward, so as to prevent boats landing, unless a jetty, of ninety feet in extent, were run out into twelve feet water. A road has been formed from the Geraldine mines to the bay, where a government station, with a few soldiers, has been established, for the protection of those engaged in mining operations. Public attention is now directed to this neighbourhood; and some details respecting the surrounding country, so far as 1s known, are necessary.

The most remarkable inland features are the Menai hills, a group at the north end of Moresby's flat-topped range, Mount Fairfax, and the Wizard Peak, or Hill, which is an almost solitary pyramidal hill, of 715 feet elevation, distant eleven miles from Champion bay. It is composed of large blocks of ironstone, which have such a powerful effect on the needle, as to change its direction, in different places, ten degrees. A few small casuarinas and wattles are thinly scattered on its summit, and some stunted xanthoreas on the south-west side. Stokes says, that part of the range lying immediately north, was absolutely a mass of bare ironstone.

Mount Fairfax, 582 feet above the sea, is the southern and most elevated part of Moresby's flat-topped range. It rests on a reddish, sandy, sloping plain, occasionally scattered with fragments of quartz and ironstone, which apparently characterize the formation of Mount Fairfax, and the neigh-

bouring heights.

The outline of Moresby's flat-topped range, in 28° 50' S., presents a remarkable sımılarity to Sea range, near the Victoria river, to Cape Bedford, on the north-east coast,

very commanding: to the north-north-west and north-east lie extensive valleys, concerning whose capabilities very different opinions have been expressed. To Captain Stokes (who viewed them through his telescope), they all appeared of a similarly arid nature. For a few miles to the eastward, and a great many to the northward, the formation of the country is considered by this authority to be of the same flat, broken, and irregular character, including no greater elevations than the Wizard peak, while to seaward, the appearance of the country was that of an undulating plain, with patches of stunted woodland, widely scattered. Mr. Bynoe, an intelligent naturalist, who accompanied Captain Stokes, conceived a like impression of the comparatively sterile nature of the country: he says, it was only the surface soil which held vegetable matter; that near the Wizard peak, the holes dug by Moresby's range, the soil became freely mixed with ironstones and pebbles—the vegetation more stunted, consisting principally of prickly bush, mingled with coarse brown grass, on which few kangaroos or emus were seen.

On the other hand, the Honourable George Fletcher Moore, who was my fellowand who there distinguished himself by high attainments, and whose quiet, observant character was not likely to give expression to a hastily-conceived or exaggerated opinion, thus speaks of the country near Champion bay:-- "Judging by the eye, at that distance, the entire space, as far as we had an opportunity of seeing, after going a little way back from the coast, on the slope to the hills, upon the hills, among the hills, beyond the hills, and, in short, everywhere as far as the eye could discern, appeared a grassy country, thinly sprinkled with some low trees or shrubs, perhaps acacias. If this be the case, and there be water sufficient, of which there is no reason to doubt, this may certainly turn out to be the finest district

to the northward and eastward of Champion bay, which fully substantiate these views, as Grey, which is five miles to the south-Mr. Gregory, also, who ascended the Wizard is rocky, with outlying reefs. There is

Peak, in 1848, gives an idea of the country totally different from that expressed by Captam Stokes; he says, in his journal:-

" After an hour's ride over rich grassy hills, reached the foot of Wizard's peak; here we left our horses and ascended the hill; arrived at the summit, to our great surprise, instead of the scrubby and sterile country described by Captain Stokes, of the Beagle, beautifully grassy hills stretching from north-north-cast met our view to the extent of about 20,000 acres, had it not been for certain bearings to Mount Fairfax and other hills, that we were on Wizard peak, I should have suspected its identity. Leaving Wizard peak and steering north along the western foot of the grassy range; the country to the east consists of grassy hills of limestone, rich in fossils of wood and shells, with an occasional granite hill producing coarse grass or short scrub.

The Greenough River, which flows into Champion bay, was examined, in 1848, by the Messrs. Gregory and Burges, and found, near the sea, bounded by white and red sandstone cliffs 200 feet in height, and genethe natives to obtain the warran, or native rally covered with dense thickets of acacia yam, disclosed pure sand; and that near growing on an otherwise barren and stony soil. One channel was found dry, with no appearance of water having passed over its sandy bed during the previous winter; as the river was traced upwards, in a southerly direction (see map), it was found to improve, and was joined by a small gully from the west coming through a grassy valley. The explorers, on altering their course to student at Trinity college, in days of yore, 210 degrees, found the country improve, the river running, with many large pools of water, some more than half-a-mile long, and 80 to 100 yards wide; the water from sandstone springs slightly brackish. It is estimated that there are 50,000 acres on the Greenough well grassed and watered.

The embouche of the Greenough river is a small estuary separated from the sea by a low bank of sand, thirty-five feet wide and five feet high, over which the sea, during gales, appears to enter. The banks of the Greenough are, in some places, seventy feet

high, composed of limestone.

Mr. Roe, the surveyor-general of Western Australia, found, in June, 1847, to the north-east of Champion bay, a tract of about 150 miles of good arable land, onefor sheep pasture that this colony can third of which he considered excellent for every purpose, either agricultural or pas-Since the foregoing was written, I have toral. He states, however, that he did not received from several quarters details of find quite so much good country as Captain explorations and examinations of the country Grey's book would have led him to suppose.

Proceeding southward, we arrive at Port well as those expressed by Captain Grey, ward of Point Moore. The shore between an extensive reef running from Point of corals, intermixed and forming a consolito southerly winds, but there is "a very snug httle harbour formed by the reef, smooth water close to the reef, and the point of this natural jetty shuts in with Point Grey, bearing south-by-east, "so that no wind could hurt." There is fresh water close to the harbour, which seems to be mon branch kind. adapted for small coasters.

line, it is advisable to examine Houtman's Abrolhos, distant thirty-five miles from the mainland, in 32° 42′ 50"* S. lat., and 1° 57' 50" W. of Swan River. They form three separate groups of coralline islands and reefs, which extend in a north-northwest direction forty-eight miles, diminishing in breadth towards the north. They are termed the Northern, Easter, and Pelsart group, and are separated by channels four

to ten miles wide.

Easter group (the central) contains a large and secure haven, termed Good Friday harbour, having fifteen to seventeen fathoms, fine muddy, sandy bottom, between the coral patches, which demand the utmost attention from the navigator in entering the harbour.

Rat Island, the centre of the group, has an elevation of about thirteen feet, and has low overhanging cream-coloured limestone The soil is mixed with guano, and filled with burrows of the sooty petrel or mutton bird. The island is infested with rats, and there are numbers of a pretty lizard, whose tail is covered with spines.

The Abrolhos form the upper surface of the great coral-bank, which extends from the mainland, and shelves off at the outer edge of the south part of the group, almost precipitously to no bottom, where soundings are not found with 250 fathoms line. The average depth surrounding the islands is twenty to thirty fathoms. With the exception of the Bermudas, these coral islands, so far as we know, are the farthest distant coral formation from the equator. The reef on which Rat island rests extends off 400 yards on the inner side, and has twelve fathoms just off it on a grey sandy mud. The greater portion is composed of a variety

* This is the position of the observation spot of Captain Stokes on Rat Island

Moore, and one to the north from Point dated mass with "brain-stones" scattered Grey, and a centre one, leaving a clear over it. The reef is nearly dry at low water: opening on each side. The port is exposed but a portion does not rise so high, and projects so as to form a narrow shelf, from the edge of which a wall descends almost perextending from the land in the depth of pendicular to the depth of fifty-four feet. the bay." There are two and-a-half fathoms The coral on the upper twenty feet is formed in the shape of huge fans, spreading out from stout stems, overlapping each other in clusters, and having angular cavities between. The lower portion of the wall is of the com-

The Wallabi Islands form part of the Before proceeding further with the coast Abrolhos group, and have a good haven, it is advisable to examine *Houtman's* termed *Recruit harbour*, with eleven to twelve fathoms, perfectly sheltered on all sides. East Wallabi island has an elevation at the north-east extremity of fifty feet, and measures upwards of a mile each way. West Wallabi island is two miles and-a-half long, by one mile broad: in the centre is a low flat, with hills rising all round except on the south side. Flaghill, the highest, is formed of sand and comminated shells, while the flat which stretches to the south-west from its foot, is of limestone formation, on which there is a cavern fifteen feet deep, with a sloping entrance and a stalactite roof. Some sand hills, thirty feet high, and covered with a dense scrub, are filled with the burrows of the mutton bird. The north end of the island is a level stony flat, with patches of brushwood, among which Captain Stokes found such an abundance of the marsupial animal, termed the Wallabi, that in four hours, seventy-six, weighing about seven pounds each, were killed with three guns. It is strange how these animals reached the islets from the main. The snapper fish were numerous off the island, and so voracious that they allowed themselves to be taken with a small piece of paper for a bait.

Gun Island, in 28° 53′ 10" S. lat., 1° 53′ 35" west of Swan river, forms the north-west extreme of the Pelsart group, and is the largest of the islets (a quarter-of-a-mile mile long). The group is encircled by a reef; on which doubtless the Dutch ship Zeewyk was wrecked in 1727. The island was so named by Captain Stokes, in consequence of finding on it, 24th April, 1840, a brass four-pounder of singular construction, which is now deposited in the United Service Museum, Scotland-yard, London. The gilding on the ornamental brass-work is in a remarkable state of preservation. Two Dutch dorts were found, bearing date 1707 water, and were covered with a white sub- miles inland down to the coast. stance, which had eaten away the glaze.

pears, for at least thirty miles, as seen from north-east, in the Herschel range. higher and of a less barren appearance; be-

table-topped broken ridges.

between Champion bay and the Arrowsmith: Arrowsmith, reaching within two miles of it rises in the interior to the eastward, and the sea, which would make a superior sumhas in some places a bed eighty yards wide, mer run for a large herd of cattle. high; but in the dry season water is only to Eastern Irwin and the Arrowsmith, but the eight miles wide. On an east-north-east is uncertain. course from Champion bay, there are extensive flats of good light soil, well grassed, and Moore river, crossing the streamlets of Hill some two miles wide; a beautiful country, and Smith, behind the ranges, consist of full of warren-holes, and lightly timbered; several good pools, "one 200 yards by 25, and no bottom to be found by diving." fine wide grassy flat, with small trees, con- of Gairdner's range. tinues to 29° 9' S. lat. Advancing thence in a north-east course, the country much improves, banks of clay and red sandstone occur; but on approaching the Coal Valley in 29° 57′ 42″ S. lat. (200 miles north of Perth) there are no flats but steep banks to digging a few inches, and abundance of grass. The river bed twenty-five yards shales. The coal seam seen here was about six feet thick, and ran entirely across the bed of the river, and under the bank on The Irwin divides into two both sides. branches, where the sandstone ceases, and stream flows from the eastward.

96th (who was afterwards unfortunately timbered, principally by the cypress, and lost), made, in company with others, in bounded for nearly its entire circumference 1847, a journey from Lefroy's station, on by limestone rocks, so as to present few the Moore or Garban river, to Port Grey; landing-places for boats. This island is he found the country (probably he kept near the prison where the aborigines of Western

and 1720; also a number of pipes and glass wretched and unproductive; the party were bottles; the latter of a stout Dutch build, two days without water; but the Irwin some capable of holding five or six gallons; alley he describes as a "terrestial parathey were placed in rows, half buried in the dise," in breadth from one to six miles, and sand, as if for the purpose of collecting extending, at all events, from twenty-five

The Arrowsmith River, or rather brook, Resuming now an examination of the has its embouche in the sea, to the north coast to the south of Champion bay, it ap- of Gairdner's range, and its rise to the the deck of H.M.S. Beagle, to consist of high pasture-lands on the Irwin join those on sand hills, partly covered with vegetation; the Arrowsmith; the country is said to be immediately in the rear is a range rather better adapted for cattle than for sheep, as parts of it are rather low; for agriculture hind these again, at a distance of eight or it would be useful, as the soil is rich, and nine miles, there arises a series of singular there is scarcely a tree to each hundred acres. There are about 10,000 acres of fine The Frvin River falls into the sea midway rich pasture land along the banks of the with limestone and clay banks, thirty feet thousand sheep could be kept between the be found in pools. The valley of the Irwin occupiers would probably have to dig for is said to extend thirty miles north-north- water. Whether the river and country is west and south-south-east, and is about identical with that named by Captain Grey,

> The country between the Arrowsmith and extensive plains, which, at least, during the rainy season, are well grassed.

The Hill stream flows from the south end

The Garban is formed by the junction of the Moore and Norcott rivers, about fifty miles north of Perth. From the Garban to Perth, there is a chain of fresh-water lakes, at intervals of five or six miles apart.

The coast line presents no feature of the nver bed, with plenty of good water by note; harbours for cargo boats probably exist at Island Point, Jurien Bay, Lancelin Island, and behind the reefs at and near Brewide, running through sandstones and ton Bay. The appearance of the shore is barren and forbidding, but the wind seldom blows direct on the land; vessels can therefore run north or south, according to circumstances.

Approaching the Swan-river estuary, we the granite formation commences; the largest reach Rottnest (rats' nest) Island, distant twelve miles from the port of Fremantle; Mr. Macgill, an officer of her Majesty's it is ten miles long by seven wide, heavily the coast), for the greater part of the way, Australia were transported, for offences committed in the colony. From a gently rising aware of this fact, selected a low-lying site chain of hills which slope gradually down a more elevated and safer position. into the plain, occupied by a succession of ference, and one yielding pure salt in abun-The aborigines, about twenty in number, under the direction of their superintendent, Mr. Vincent, and with the aid of four soldiers, have built an excellent dwelling-house, store (70 feet long), cells for prisoners, workshop, stable, &c.—all of stone; made a road, ploughed, fenced, and cultivated a considerable quantity of land, and done much useful work. This establishment is now broken up, and the island leased to Mr. Thompson. The convict aborigines are employed on the roads. The salt lake is a short distance from the house of the superintendent; it is about threefourths of a mile in circumference, and is nearly covered with beautiful crystals of dazzling white salt, of which many tons are collected in a month. The water of this lake might, in American language, be termed a "concentrated essence of sublimated salt;" it is so intensely acrid, as to blister the tongue when tasted. Mr. Deputy Assistant-commissary Webb, who explored the island, was pleased with the scenery; the soil is of a light sandy loam; in some places there is a rich dark brown mould prized for gardens.

The Swan River, which originally gave its name to this colony, takes its rise about 80 miles from the coast, flows north for 100 miles under the name of the Avon, then joining the Toodyay turns west, passes through the hills for fifty miles, and disembogues into the Perth water, an estuary about two miles long by one broad, which communicates with the beautiful lake termed Melville water, seven miles long by four broad. The Swan flows all the year round, and sometimes renders the waters fresh in Gage roads during winter; together with the Perth water, it is navigable for boats or flat-bottomed craft, as far as the tide flows, viz., about forty miles.

The Canning, which flows from the southeast into Perth water, has a boat navigation The Helena falls into the forms in their primitive state. for fifteen miles. Swan below Guildford.

Australian rivers, to occasional, sudden, and tremendous floods, which inundate the corn tected from the vast body of water which rolls lands in the vicinity. The early settlers, un- in from the north-west by a bank, which ex-

ground near the superintendent's house, for their town; but the first winter, forthe view is enclosed on every side by a tunately, gave them a warning to choose

Melville water, on which Perth, the capilakes, the largest two miles in circum- tal of Western Australia, is situated, opens into Freshwater bay, and the latter into Rocky bay, from which the estuary continues in smaller reaches until it opens into the sea at Gage roads, where the town of Fremantle is situated. The portion of the bar from Fremantle to Rocky bay, 18 full of shallows, on which there are only nine to ten feet water; but the estuaries of Rocky and Freshwater bays, and of Melville, have sufficient depth of water for the largest ships, and would form a fine harbour, if accessible from the sea. In my Colonial Library, vol. in. p. 328, published in 1836, I urged the cutting of a canal, so as to admit large vessels. The bar at Fremantle, which extends three-fourths of a mile, not long since was blown up, so as to admit craft of eight feet draught to reach Perth; and it is now proposed to cut a ship canal from Rocky bay to the sea, through an isthmus of soft calcareous sandstone 480 yards in breadth, with an average height of fifteen feet. If this be done, and the mouth kept free from sand, Western Australia will possess a most complete land-locked har-

The cliffs of the coast near Swan river appear covered with thousands of roots, twisted together in a reticulated manner. The same formation is observable at Bald Head, King George's Sound. Their resemblance to the stumps of a dead shrubbery is so exact, that, before touching them, it is difficult to say which is the wood and which the calcareous matter. Mr. Darwin supposes that this singular appearance has been caused by the wind heaping up calcareous sand, together with branches, roots of trees, and land shells; the whole being subsequently consolidated; and when the fibrous portion decayed, lime, washed into the cylindrical cavities by the action of rainwater, preserved the form of the wood. The decaying influence of the weather is now washing away the sandstone and softer portions of the rock, leaving the vegetative

Gage Roads, at the entrance of Swan river. The Swan river is subject, like other are formed by Garden, Rottnest, Peel's, and Carnac islands; and the anchorage is pronest island and the main. The anchorage of a plank to the shore. is in seven or eight fathoms, on sandy mud. about a mile from the gaol at Fremantle,* Fremantle, has a narrow entrance. slightly coated with sand. A ship rightly found—especially with Homball's patent vessels. moveable fluke anchors-would not drag driven on shore has been owing to not when a breeze sprung up, there was no time the head of the inlet. to let go another anchor with effect.

Gage roads.

between Garden island and the main land. seven miles from Fremantle, is a safe and Indian Ocean. sea than a boat might have endured.

Rockingham Harbour is said to be a good haven, requiring only a small breakwater, for shelter against the north-by-west winds, which are of rare occurrence. The deep water runs within a few yards of the shore. and a jetty would enable large ships to

discharge their cargoes.

Warnborough Sound, three miles from fathoms water on it.

Sound, is about thirty miles south of Fre-The mouth of the inlet has a

* The longitude of Scott's jetty at the Swan River u considered to be 115° 47' E. of Greenwich.

tends out to the north-east, between Rott- said, might discharge her cargo by means

Peel Harbour, forty-five miles south of bearing east by north. A quarter of a mile estuary is in length about fifteen miles, by nearer the shore, the bottom shoals rapidly two to four miles in breadth, and eight feet to four and three fathoms, on rocky ground deep. Inside there appears to be sufficient depth of water and space to hold many

The Murray River, which is navigable for up so steep a bank; and Captain Stokes sixteen miles by boats, disembogues at the thinks that the cause of some ships being centre of Peel inlet; and the Serpentine, Currie, and Dandalup streams flow into the selecting a proper berth, and getting too broader part of the estuary. The Dandalup near the land, on a rocky ground; so that, joins the Murray. The Harvey flows into

Leschenault or Koombana Bay, in Welling-Owen's Anchorage, the usual resort from ton county, eighty miles south of Swan the 1st of May to the 1st of September, is river, ninety-eight miles from Perth by perfectly secure, and readily accessible from land, and 180 miles from King George's Sound, has the mouth of its inlet situated Cockburn Sound, in 32° 10' S. lat., formed in lat. 33° 19' 10" S., long. 115° 40' 15" E. The bay affords shelter for large ships in four and-a-half to five fathoms, excepting extensive anchorage. It would contain 1,000 from north by east to west, and by north ships, out of mortar range either from the or west-north-west winds, or for smaller sea or land side, and in the hands of an vessels lying further in, round to northenemy would be exceedingly injurious to west; but as the bottom is clear of rocks. our maritime interests, especially in the and there is good holding-ground, vessels H.M.S. Beagle rode out have been uninjured during the heaviest two gales, of forty-eight hours' duration, gales. Mount William, bearing N. 40° 6' E., here, on the 31st of March and the 11th from near the entrance of the bay, distant of June. The gales commenced at north thirty-three miles, and with an elevation of by west, and, after lasting forty-eight hours, 1,725 feet, is the best land-mark. Mount gradually blew themselves out at west-south- Leonard, another elevation of the Darling west. At the anchorage there was not more range, bears S. 81° 44' E.; distant thirteen miles; elevation, 1,270 feet. † The Leschenault inlet, or estuary, at the south-west of Koombana bay, is separated from the ocean by a narrow limestone ridge, covered with timber and vegetation, and has a well-protected entrance. The estuary is about fourteen miles long, by upwards of a mile broad; in some parts, three to six fathoms deep; affording in all places water north to south, and two miles and a half communication, as it is full to the shore from east to west, is formed by a chain edge. There is a sand-bar, easily removeof reefs; the entrance-bar has five or six able, dividing the estuary from the bay; boats drawing three to four feet water can Safety Bay, an inlet of Warnborough pass it at all times. Rise of tide inconsiderable.

The Preston and Collie Rivers have their tendency to fill up with sand, which a embouche on the east side of the inlet; and small expense in piling would prevent. If the Brunswick falls into the Collie, a little this were done, a light-house erected, and above its embouchure. These rivers are the entrance buoyed, an Indiaman, it is running streams all the year round, skirted

† Stokes' Voyage in H.M S. Beagle. Vol.ii., p. 396. Roe's Chart gives the height of Mount William 3,600 ft.

At Leschenault, the Darling range an-Mount Leonard and the gorge through which golds, and other beautiful field flowers."*

the Harvey river flows.

12 to 16 feet water.

high peninsula, lined on the south by hundred yards in width. basaltic pillars. The town is well laid out;

richest in the province.

lines, &c. Thus at a place, of which the blow from south and south-east. name and position are almost unknown in the . Western Australia, by T. J. Buckton, Esq.: mother country, Englishmen have erected p. 39. London: 1840.

a wilderness.

The Vasse River is said to "flow through proaches within fourteen miles of the sea; a district rich in herbage, resembling clover, its sharply-pencilled outline broken only by and enamelled with daisies, buttercups, mari-

The north extreme of Cape Naturaliste is Australind is situated on the easternmost formed of majestic cliffs of limestone, 200 border of the Leschenault estuary. It is, feet high, and perforated with two ranges of beyond all comparison, the best planned caverns. The outer, or great cavern, is town in the colony; and Mr. M. Waller about 50 feet wide, 45 high, and 100 feet Clifton deserves great credit for the ability deep. Some of the stalactites measure 15 feet, and taste which he has manifested. A substantial bridge has been constructed over the assemblage of colours, owing to the variety Brunswick river, in the township: it is of hverwort and fungs with which they are 160 feet long, by 10 feet wide; the span of covered. From Cape Naturaliste to Cape the four chief arches is 27 feet; it is sup- Hamelin the coast lies nearly due south, ported on five piers, of which three are in marked only by the Margaret river, which has its mouth almost midway between the Bunburry, at the southernmost part of two capes. The most striking sea-coast feathe bay, is beautifully situated on a small ture is a belt of snow-white sand, of some

Cape Leeuwin, or Landt Van de Leeuwin, all the streets cross each other at right land of hons, so called by its discoverer, in angles; and the neighbouring country is 1622, is situated at the south-west extremity very pretty. The harbour is secure for of Australia, lat. 34° 21' S., long. 115° 6' E.: small craft; but large vessels he in the it is tolerably elevated, of a smooth but roadstead, to take in long timber. On the sterile aspect, visible about thirty miles in sea shore, near Bunburry, there is a forma- fine weather, and defended, between southtion of pure basaltic rocks, resembling, in west and south-east, by rocky islets or deminiature, the celebrated Giant's Causeway tached breakers, to the extent of five or six in Ireland. The columns, as seen in the miles. It appears like an island, lying close chasms caused by the action of the sea, are, to the main, with lower land on its north in some places, six feet high, and beautifully side. Soundings do not extend far off shore. shaped. The district between Bunburry and Flinders found eighty-five fathoms, at nine Geographe bay (Henty's Plains) is one of the to ten leagues south by west, and forty to sixty fathoms, at six leagues to the south of Geographe Bay forms a complete curve. the Cape. South-west gales, with a heavy Vasse inlet, in the south-east portion of the sea, are experienced off this cape. H.M.S. bay, affords shelter for small craft. There Zebra was compelled to throw her guns is good anchorage, protected from north- overboard. I was myself, on one occasion, west and south-west winds, on the north- in a constant gale for nearly three weeks, east side of Cape Naturaliste, (which is in running from north to south, without being 33° 31′ 45″ S., 0° 47′ 30″ W. of Swan able to make any westing to double the river), the westernmost point of the bay. Leeuwin. There appears to be a northerly The township in Geographe bay is named current setting round the Cape from the Busselton, situated on the Vasse river, 130 westward; but an easterly current generally miles south of Perth. The most conspicuous sets along the southern shores, towards Bass' feature is a neat stone-built church, recently straits. A settlement was formed to the erected, of which a drawing was given in south-east of the Leeuwin, at a small har-the Illustrated London News of 21st Feb- bour towards Augusta. It was abandoned, ruary, 1846. The nave is 40 by 20 feet; on account of the alleged insecurity of the the chancel, 14 by 12 feet; the walls 16 haven. The anchorage is spacious, sheltered to the line of roof; the roof is constructed from the usual winter winds from the north of native mahogany, with principals, pur- and north-west, but open to those which

The Chapman river, after its junction with the Blackwood river, flows into Augusta bay or inlet, under the designation of M'Leod creek. It is navigable for boats in a northerly, and then in a westerly direction, for twenty-five miles.

The Blackwood river has been traced fifty miles previous to its junction with the Chapman; its banks are stated to be, in many rich red loam." On a southerly course the country deteriorated; but, on bearing west, scenery very beautiful, with banks sloping down to the water." Much of the country seen was "exceedingly fertile, but greatly encumbered with timber of stupendous size." There were some grassy plains, and the region is well watered.

Proceeding eastward from Cape Leeuwin the coast trends to the north-east, and forms an open roadstead termed Flinders' Bay, which curves south forty-three, east thirtyseven miles, along a low, sandy, uninviting harbour, situated at the back or west part of shore to Point D'Entrecasteaux, a remarkable cape in 34° 52′ S. lat., 116° 1′ E. long, visible thirty miles from the deck of a ship. The next prominent point, Cape Chatham, is a steep rocky island, lying a mile from a cliffy projection on the main, lat. 35° 2½′ S.,

long. 116° 29' E.

Point Nuyts, seven miles east by south from Cape Chatham, is a cliffy head, projecting three miles beyond the line of coast.

It is known that Nornalup and the Deep River District possess a very fine country; timber of the most stupendous size, and of the best quality, is found in this neighbourhood. A seven ton vessel was built of one piece of thirty feet, cut off the butt of a tree of 150 feet high before branching.

This region is not sufficiently known to I saw of the coast-line, that a good country, with certainly a fine climate, will be found in the interior; the shore abounds in inlets William's Bay, and Torbay, possibly possess dense forests of "mahogany," white gum

havens. Mariet Lake, near Ratcliffe ay, is a large sheet of water. The whole of this coast and country ought to be care-

fully surveyed and explored.

King George's Sound, the best harbour in Western Australia, is formed on the south side by Bald Head, and defended at its entrance by Breaksea, Michaelmas, and other islands, which protect the sound from places, covered with a dense forest of enor-easterly winds. There are two havens called mous trees, and some of the finest land seen *Princess Royal* and *Oyster harbours*, the by Sir J. Stirling was observed in its vici- former adapted for large ships, the latter for nity. The country was partially examined, vessels not drawing more than eleven feet of a few years ago, by Mr. J. C. Russell. At water, which may be secured within 100 first, the timber was of minor growth, and as yards of the shore. For a ship only wanting thick as usual: after advancing four miles, water and fuel there is a sandy bay in the the country improved; the "face of nature south-west corner of the sound, where two became more and more pleasing; the soil a or three streams of excellent water run into the sea over the land.

Bald Head, which forms the south-west the explorer "came upon a brook, sur- portion of the sound, is a barren rock of rounded with magnificent gum trees, the moderate elevation, about two miles and-ahalf in length; it is connected with the main by a low piece of land, in the centre of which stands a small peak; this gives the head from the offing to the southward the appearance of an island. The conspicuous headland, called Peaked Hill, with a peculiar profile outline, is about five miles to the south-west of Bald Head, whose south end is in 34° 55′ S. lat., 118° 29′ E. long.

From the anchorage of Princess Royal King George's sound, Mount Clarence bears north-north-east, and the south end of Michaelmas Island just open off Point Possession. Stokes says that the entrance to this great basin is by a narrow channel in the north-east corner; the chief impediment being a long spit extending off the inner west entrance; it was worked through by H.M.S. Beagle both ways; inside there is water sufficient for a line-of-battle ship, but only for a limited space, a short distance within the entrance towards the north-west corner of the harbour, where a straggling village points out the township of Albany. Mount Clarence and Melville rear their bare and granitic heads on either side, and huge fantasticallyshaped boulders are strewn over their slopes.

The Kalgan, or French River, which disenable me to give any description of it; it embogues into Oyster harbour, flows north appears, however, very probable, from what from the Stirling range, is of considerable length, and fed by many tributaries. Excursions were made up the stream in 1831 by Dr. Collie and Lieutenant Dale, who for capable of being made valuable. Irwin Inlet, the first twenty miles of their route found trees, casuarmas, banksias, wattles, (always indicating in Western Australia a good soil,) and other shrubs; ascending the stream the country became more open, and numerous ponds of brackish water were found.

About thirty-five miles north-west from King George's Sound, there is a fine country, resembling in its park-like features the neighbourhood of Melbourne, Port Phillip. There is an abundance of kangaroos, which indicates the pastoral character of the neigh-

The Hay river, at two miles above Ungerup, is a small tortuous rivulet, with rich grassy The banks, overhung by fine shady trees. valley is narrow, sloping gently upon either side, and its soil is a fertile mould. Lady Spencer (whose husband was, for some time, Government Resident at King George's Sound), has some fine farms in this region. The crops of grain produced here are equal in quantity and quality to those of the most favoured districts in Van Diemen's island.

The district of King George's Sound is not subject to droughts, the harbour is almost unrivalled, and the adjacent seas, bays, and inlets abound with whales and

excellent fish of various kinds.

Albany, which is still a mere village, is distant from Perth by land 300 miles, and by sea 450 miles; from Adelaide, South Australia, 1,400 miles; from Melbourne, Victoria, 1,800 miles; from Van Diemen's island, 1,850; and from Sydney, New South Wales, 2,700 miles.

The coast trends to the north-east from King George's Sound, and presents several bays and inlets; the principal, Doubtful Island Bay, is formed on the south side by Point Hood and the Doubtful islands; it is about six leagues across to the north shore and about ten miles deep, affording shelter in its south-west part from all winds that do not blow hard between north-north-east and The north and west shores have not been closely examined; the coal seam, which extends in a southerly direction from the Irwin river, Champion bay, is supposed to be continued to this bay, as coal is found cropping out near the water's edge.

From Doubtful Island Bay the coast becomes low and sandy; trending in an easterly direction to the maritime portion of the province of South Australia. Mr. Eyre during his adventurous and disastrous jour ney from the head of the Great Australian Bight to King George's Sound, found the country improve as he proceeded through twelve miles inland he does not see a farm

he territories of Western Australia: tracts of better soil, and water-courses appearing to have an outlet to the ocean, rendered the ountry one of great interest, but the reduced and worn-out condition of himself and his horses, prevented his examining satisactorily the character of the region he was raversing; he was therefore unable to determine whether the rivers (which appeared to have but a short course) had or had not their embouchure open to the sea.

COUNTIES.—Having completed so far as is practicable an examination of the coast-line of Western Australia, its havens, inlets, and rivers. I proceed to shew the leading features of the counties into which it is divided, whose names, position, and relative area are

ndicated on the map.

From the smallness of the population, Western Australia has been, as I have before stated, far less extensively surveyed and explored than the sister colonies; it is, therefore, not possible to give a detailed description of the counties which it comprises, the larger

portion of which are still unsettled.

Perth County, which contains Perth, the capital of the province, and Fremantle, the principal sea-port, may be considered as exemplifying the general character of the sea-coast, counties of Melbourne, Twiss, Murray, and Wellington. The Darling range rises abruptly from the plain of Quartania, about twenty miles inland, and consists of rugged round-topped hills of rock and gravel, with valleys of a rather better quality, occasionally affording favourable spots for culture. The whole is extensively covered by an eucalyptus forest of good timber, adapted either for the construction of ships and other buildings, or for domestic The Swan and other streams by purposes. which Perth county is irrigated, have been before mentioned, beside which there are numerous fresh-water lakes and swamps, the soil on whose banks is of great richness. Several of these having been drained and cultivated, produce luxuriant crops of fruits and vegetables, maize, &c.

Generally speaking, however, the aspect of this county is discouraging to the farmer. On arriving the prospect from the sea naturally gives rise to the exclamation-"Sand! sand! is there nothing but sand?" Lattle evidence of active life or prosperous industry greets the anxious eye of the immigrant, save in the towns of Fremantle and Perth, and the craft on the river.

Looking back from the top of Greenmount settlers. farms or houses. stretches away to the east; and the "range" trees distinctly perceptible, has yet all the charm of the soft haze, the many tinted lights and shades of a semi-tropical climate.

the top of Mount Elise, the English immilying between the cliff and the estuary, the banana, peach, nectarine, apple, and pear, the lemon, orange, guava, loquat, and pomegranate, the almond, fig, and mulberry, while the melon and its fellows creep among their stems; but yet more pleasing is the effect of the endless interlacing of trellised vines beneath which the people are pursuing their avocations, and the successive terraces of vines and olives, rising almost to his feet; yet the question, Where are the farms? still remains unanswered.

A resident of several years' standing assures me that men frequently visit the colony, who having seen nothing beyond this, leave it with a very false impression, forgetting how unfair it is to judge by one limited tract, of the whole of so extensive a to the banks of the rivers and lakes.

only on account of its beauty, but for the walled cottages, peeping out fr more solid advantages which it possesses. of the casuarina and banksia.* The sandy soil, united to an unlimited supply of good water, procured at an average depth of fifteen feet, a perfect dramage in each direction, exposure to the healthful sea-breeze sweeping up the succession of picturesque estuaries, with a frontage and rear of garden-grounds, offer great promise of salubrity, while an abundance of bricksubstantial style of building.

Up to the year 1838, we learn (the first hill of the range on the road to from the journal of the Agricultural and York) the eye wanders over an apparently Horticultural Society of Western Australia unbroken forest plain, the great height of that the value of the improvements in Perth the trees effectually concealing all signs of were estimated at £50,000, since which The first view of Perth is time the increase has been considerable. however singularly pleasing. Situated about The building allotments have likewise masixteen miles from the sea-cost, on the bank terrally augmented in value; fifteen years of the pretty sheet of water (formed by the ago they were often bought and sold for Swan river) which bears its name; with the a bottle of grog, now many are worth from wooded shores opposite; the forest plain £500 to £1,000; it must, however, be remembered that then high and tough gum rises in the distance; while the air, although trees covered the site of the city, and from so clear as to render the very stems on the the thickness of the "bush" it was dangerous to move about even for a short distance; -now there is a regular town, excellent houses of brick and stone, with Gazing on this tranquil panorama from large verandahs and neat gardens around; a store which cost £3,000—temples of worgrant views with surprise in the gardens ship for different denominations of Christians, a Government-house, Court-house, Western Australian bank, barracks, gaol, club-house, hospital, magazine, public offices, hotels, inns, mills, fields, gardens, good roads, farms and homesteads in various directions.

The military barracks at Perth occupy a pretty situation, about 400 yards from the river Swan (here nearly a mile wide), and at the head of the government square, which slopes gently towards the water. From the barracks there is an uninterrupted view of Melville water for a distance of six miles, and the beauty of the scenery is much enhanced by the many strips of land which run out from the shore, on either side. the left bank of the river, separating Perth from Melville water, is a long tongue of territory as Western Australia. In this land, with a windmill, and on the opposite county the farms are almost wholly confined shore of the narrow passage, Mount Elise raises its rugged and precipitous sides, which The position of Perth is well chosen, not are studded here and there with whitewalled cottages, peeping out from the foliage

Fremantle, the sea-port of Perth, distant about fourteen miles by water, and eleven by land, hes immediately behind the little promontory of "Arthur's Head." It is built entirely of white limestone, and the dazzling glare of the walls and houses is, in summer time, rather trying to visitors. contains a very pretty church, a Wesleyan clay, lime, fire-wood, and timber of good meeting-house, government store-houses, quality have afforded the materials for a two good hotels, and some commodious Nor have dwellings. During the winter season, bay these facilities been unavailed of by the whaling is actively carried on; and one of

[•] From interesting sketches entitled Our Western D.A.C.G., published in an admirable miscellany Australian Home, by George J. Webb, Eso., termed the Swan River News.

the most spirited undertakings in the colony is the tunnel, made through Arthur's Head. from the principal street in Fremantle to north-west direction from Perth, the route the whaling jetty. The inland face of the being along a chain of beautiful lakes situcliff, at the mouth of this tunnel, is cut and ated from four to six miles behind the sea finished like a fortification, and being surmounted by the stone gaol and court-house. has a striking effect. The whaling company's storehouses, &c., are partly cut out of the rock, and their ranges of furnaces and try-pots, together with the long sharp boats, ley, New South Wales (see pp. 398-9 and suspended over the sea, ready for instant 472). Six of the Maidin caves examined action, with oars, harpoons, baskets of coiled by Mr. Roe, presented a magnificent apline, lances, and muffled rollocks, convey an pearance; a narrow passage of a few yards idea of energy and activity fully sustained expanded suddenly into open extensive by the character of the Fremantle resident chambers, which were traversed to the diswhaling parties. The jetty is built of the tance of 180 feet, and found to have an "Jarrah" timber of the country, which average width of forty-five feet, and a roof defies even the sea-worm. Its piles and of twelve to fifteen feet, thickly studded

as sound as the day they were put down. in Perth county, named Guildford, is advan- of the roof. tageously situated at the confluence of the layers of smooth, white, and semi-transpa-Swan and Helena rivers, about seven miles rent stalagmite. Another chamber, eighty north-east from Perth, and four miles from feet long by thirty feet wide, had stalactites the foot of the Darling range. It stands upon of all shapes and sizes suspended from the the high part of the alluvial flat fringing the roof. The cavernous entrances are in some river, which extends from half a mile to one picturesque rocky glens near Mambibby mile from it on either side. This flat is so lake The aborigines consider these recesses rich, that Captain Stokes states it produced, the abode of evil spirits. in 1843, after thirteen years of successive cropping, without manuring, a more abun- in having hardly any lakes, except large dant harvest than it had done at first. This swamps on the Serpentine river, fewer rich officer notices, also, that in the year 1833 flats, and more clay upland. It has a few (a period when the settlers were in want town sites, but no town; the church and of food), a flight of strange birds, resembling barracks at Tingarra are very prettily the rail, but larger, appeared in vast num- situated, and form the nucleus of a thriving bers near Guildford, when the corn was village. The main streams are the Murray, green: they were so tame, as to be easily Dandalup, Serpentine, and Harvey. The taken by the hand; they disappeared in the chief stock of this district are horned cattle same mysterious manner as they had arrived, and pigs, and its principal produce wheat of and have not since been seen. There are no fine quality. The farms are generally so stock-farms, properly so called, in this dis- well fenced, as to admit of the practice trict, and the tillage farms are generally which prevails there, of turning pigs loose small.

Monger's Lake is situated in a flat, barren tract, about three miles from Perth, and when filled, during the wet season (June), occupies an extent of five miles. There is another lake contiguous. Summer gardens have been formed by the settlers on the borders of these lakes, which yield plentiful are finer, and abound in permanent rills, crops of melons, carrots, potatoes, and othe vegetables. The scenery around, when the beds of the lakes are dry, is very dreary, but in June, the margin of the water is exquisitely carpeted with flowers.

The remarkable stalagmitic caves of Maidin, he about thirty-five miles in a northcoast, whose fertile banks afford luxuriant feed for live stock. These caves have been partially explored by Mr. Roe and Mr. Webb, and are somewhat similar to the caves near Bathurst, and in Wellington valbeams, sunk above fifteen years ago, are with beautiful stalactites, some descending to the floor and forming pillars of ten to Another town, or rather scattered hamlet, twelve feet in circumference, for the support The floor was covered with

Murray county differs from Perth chiefly in the forest till wanted, and whole herds of these animals wander about at will.

This county, like Perth, includes a portion of the great forest of the Darling range, and is, like it, covered with wood, even on the plain, which is however more hilly and undulating; but the valleys along the range and even waterfalls of much beauty, which will eventually prove useful for mills.

Wellington County bears the same general character, but is sufficiently south to render the difference of climate perceptible. In

the rivers run all the year. It may be con- although there are several fine farms. kinds of stock thrive well.

It is probable that this district will become the first scene of operations of the Western Australian Timber Company, now timber comes down nearer to the port here than anywhere else on the west coast, and

from Bunburry.

Sussex County exhibits, as its leading and distinctive features.—extensive low flats of brown loam, swampy country, open downs, sheep. The chief settlement is on the Vasse inlet, in Geographe bay. This bay affords sufficiently secure anchorage, and whalers resort here constantly for fresh meat, water, potatoes, and other vegetables, butter, cheese, &c., all which are produced abundantly and of the finest possible quality. The cheese of this district is celebrated. It consists of two kinds, one resembling Stilton, the other Cheddar. The potatoes are the finest in the colony; and its butter finds ready market even in Perth.

There is no settlement in this county, except that at Augusta; but there is much fine country. Proceeding along the south

coast, we come to the

not possess any settlements; though they tricts, but the settlers have lately pene-have, no doubt, especially the latter, abun-trated above 200 miles northward. These numerous rivers and estuaries, some of which might easily be converted into harbours. The timber is the largest in the colony; and its stupendous size may be imagined from the fact, that a seven-ton vessel was entirely built out of the material furnished by a single junk, of thirty feet length, cut off one end of a tree. It often runs 150 feet in height, before it divides into branches. The timber is of excellent quality for building purposes, especially for ships. Stirling county has fine timber and good land.

Sound harbour, and the town of Albany. stone; but lime has not been found, unless

some parts the grass remains green and The soil is generally of inferior description. sidered the finest district outside the range, town of Albany is handsomely situated, on and offers many inducements to the emi- a high ground, overlooking Princess Royal grant. It contains several town sites, but harbour, with two bold and picturesque only the scaport of Bunburry (see coast- granite hills, Mounts Melville and Clarence, line) is inhabited. The Harvey, Brunswick, on its right and left. The climate of Albany Collie, Preston, and Capel, are fine streams, is by many preferred, as being cooler than with much rich land on their banks. All Perth: but is liable to high winds, and comparatively less fitted for Mediterranean produce, &c. The scenery in the neighbourhood is in many places beautiful.

Among the detached mountain masses in in process of establishment, as the naval this part of Australia are the Toolbrosnap hills, of which the most eastern height, Koykyunarap, attains an elevation of 3,500 some fine cargoes have already been shipped feet. It is ninety miles north of King George's Sound, and seventy miles from Leschenault, and there is a valuable agri-

cultural and grazing country around.

Kent County is the last settled portion and dense forests; the whole fitted rather of Western Australia to the south-east; and for English than Mediterranean produce, it only claims that title by virtue of a few and for horned cattle and horses rather than stations near Cape Riche. It is not much known, but contains some fine country, and will derive future importance from the fact, that the great Western Australian coal formation crops out in seams within a short distance of the harbour of Doubtful Island Bay. where there is also a fine district of country.

Hay, Goderich, Peel, Wicklow, Minto, and Grantham Counties, as we proceed northward, are uninhabited by Europeans; they contain all varieties of soils; and are generally hilly, intersected by streams and rivers. and well timbered; they include the eastern portion of the Darling range, and bear a

considerable similarity to

York County, the first settled district "over the hills." This, with the adjoining county Lanark and Stirling Counties.—These do of Victoria, long formed the chief stock disdant sites for farms, and are intersected by two countries are still, however, of chief importance, both for agriculture and pasturage. In appearance they are very unlike the plain of Quartania or Darling range, presenting a continually undulating surface, sometimes almost mountainous, always wooded, but seldom so as to obstruct the plough. The best farms are generally on the rivers Avon and Toodyay; but this is not on account of the soil, which is as good in the back lands, and often on the tops of the hills; but on account of the surface water. The soils are chiefly red and brown loams; sand Plantagenet County contains King George's is rare. The country abounds with building in a few places. The farmhouses are gene-river to the Toodyay district. Further east, rally built of stone and clay, or rammed the country passes into sandy plains, interearth, and are often very well constructed; they have all verandahs, and are not unlike to those on the western side of the range. the Indian "bungalows."

quality of soil, in beauty of scenery, and, indeed, in all respects. The Toodyay valley Mr. J. W. Gregory is of opinion, first, contains noble farms, both for stock and that the Darling range possesses no true

From these districts northward, the settlements are more of the squatting character, with the exception of the rich Gingin agricultural district, on the borders of Perth and Twiss counties, and the Moore river farms in Melbourne county. On the latter! is a settlement of Spanish Benedictine monks, with a bishop, who carry on farming, pastoral, and vineyard operations, for the purpose, as they state, of civilising the aborigines.

The eastern counties of Howick, Beaufort, Lansdowne, Durham, Carnarvon, Grey, remain open for that purpose nearer the

coast.

lands granted and purchased in fee-simple in present land was upheaved, and without Western Australia amounted to 1,319,973 great violence, as this sandstone is remarkacres, and the lands sold, to 8,925 acres = able for the horizontal position of its upper 1,328,899 acres. The estimated number of strata, and it has not since been submerged, acres that remained ungranted in 1848, with the exception of the present line of was 19,201,274. There is, therefore, abun-coast where a narrow belt of limestone hills dant space for the extension of a white containing shells of existing species, and the population; and even after making all due water-worn boulders on the western coast of hood of Champion bay would support a very red sandstone above the influence of the large number of inhabitants.

Geology.—Along the coast-line of Western Australia there is a continuous bed of between the older slates and the carboniferlimestone, covered in many places by sand ous system, and also between the new red consists of signific granite; to the north, observed on the eastern coast of Australia. near the Murchison and Irwin rivers, is an and in similar parallels of latitude.

elevated tract of new red sandstone.

tertiary appear to be of the newest kind, On the east side of the Darling Champion bay. Iron also abounds. range, close to the base, are several groups of isolated conical hills, about a mile apart, are curious; they all begin with lead, copbearing on their summits strong marks of ignition, and extending from the William is sunk, the zinc predominates; in one (the

• Mr. Bynoe, surgeon to H.M.S. Beagle.

sected by water-courses, somewhat similar On the mountains, as well as on the plans, Victoria County much exceeds York in pebbles are to be met with in patches, containing magnetic iron.

antichnal axis, but is a sudden break and descent from the table-land of the interior to the plain of Quartania, which will account for the non-appearance of the silurian system, and the very narrow belt of chlorite and clay-slates; secondly, that the Darling range attained nearly its present elevation (that is compared with the other strata, but not with regard to the actual sea level) before the period of the coal formation, thirdly, that the range formed the sca-coast during the deposition of coal, and its accompanying shales, appears probable from the beds of marine shells interstratified with &c., are little traversed or known, and are them; that after this period the whole not likely to be settled so long as good lands country was immersed, while the new red sandstone was deposited, as this formation extends over all the known portion of Wes-It appears that up to the year 1847, the tern Australia, after which the whole of the allowance for exaggerated estimates, the Sussex, indicate a more recent change of available land discovered in the neighbour- elevation than that which upheaved the new Mr. Gregory thinks it is also remarksea. able that the absence of intermediate strata The table-land of the Darling range sandstone and the tertiary rocks, has been

MINERALOGY.—The geological character-Throughout the greater part of Western istics, and the position of the mountain Australia there is an absence or scantiness ranges, indicate a rich mineral country, and of the secondary or transition rocks; all the recently copper, silver, lead, and coal, have been found, of an excellent quality, in the and to lie in juxta-position with the pri- newly explored region in the vicinity of

> The mines explored on the Canning river per, zinc, and iron, mixed, but as the shaft fifty acre) section, there is a regular lode of

zinc yielding (66 lbs. 11 oz.) * sixty-six per on the east coast; it is open also to the river, when analyzed (22nd May, 1849) by of Earl Grey, was found to contain sixtyfive per cent. of lead, and pronounced to be "therefore a good ore, and if found in abundance, very valuable to the colony."

The coal bed discovered by the Messrs, Gregory on the Irwin river, 210 miles north of Fremantle, and forty miles from the sea, is in two seams in the following order of stratification:-red sandstone, black shale, white clay, coal five feet thick; red sandstone, black shale, white clay, coal six feet thick; the strata then deepened, and the next coal seam was hidden. The first 100 feet of depth consisted of coarse red sandstone. The coal burns well, blazes brightly, and consumes to a white ash. It is supposed that the coal bed continues in a south-east direction to the southern coast of Australia, near Doubtful Island bay, where coal has been found cropping out close to the coast.

Soil.—Very various; there are many the relative proportions were extensive wastes, but there are also numerous rich alluvial flats, and the limestone and coralline sandy strata on the Quartania plains, when irrigated, yields good crops, especially of Mediterranean produce. The vine, olive, and tobacco thrive luxuriantly; the silk-worm might also be extensively reared, as the mulberry is well suited to the soil and climate.

The geological formation of Western Australia renders it as easy to get water there by sinking Artesian wells at a depth of fifty feet, as it would be in Europe at five Dr. Van Sommer calcuhundred feet. lates that by a fortnight's boring two men with an engine could obtain a supply of population that the female shall predominate water sufficient for the irrigation of 500 over the male births.

of acknowledged salubrity. Along the south coast the temperature is much lower, and there is more rain. Western Australia is not subject to the droughts which prevail

cent. on assay. The Matrix is a quartz lode influence of the monsoons, and the annual about two feet wide, and full of bits of ore, fall of rain is greater than in some parts of sixty-six per cent. of zinc. The country is England. The hot winds blow from six to soft granite, and is expected to pass into twelve days in the season. The mean of slate. The galena or sulphuret of lead ore the thermometer at 9 A.M. is 60° to 62°; discovered recently near the Murchison at 3 r.m. 68° to 70°. Winter—9 A.M. 52°; 3 P.M. 59°. Summer—9 A.M. 691°; Sir H. T. De la Beche, at the Museum of 3 r.m. 80°. The summer commences about Practical Geology, in London, at the request the middle of November and continues to the middle or end of April. December. January, February, and March are the hottest months in the year; but in the warmest weather labourers may work all day in the open air, with no more inconvenience than on a summer's day in England. The adaptation of the climate for an European population is shown by the state of the ages and number of the inhabitants.

> In October, 1848, the census returns showed, that out of 4,622 inhabitants, there were, under three years of age, males, 267; females, 244: from three to fourteen years, males, 606, females, 605: from fourteen to sixty years, males, 1,820; females, 913: beyond sixty years of age, males, 30; females, 17.

> The abstract of the census of 1848, which I have received, does not show the proportion of births to deaths, nor of males to females born: but in two preceding years,

Year	Births	Deaths	Difference
$1842-3 \begin{cases} \text{Females} & \cdot & \cdot \\ \text{Males} & \cdot & \cdot \\ \text{1843-4} \end{cases} $ $1843-4 \begin{cases} \text{Females} & \cdot & \cdot \\ \text{Males} & \cdot & \cdot \\ \text{Males} & \cdot & \cdot \end{cases}$	85	9	77
	83	32	51
	107	16	91
	86	37	49

Preponderance of female over male births. in two years, was 23. The net increase of female births over deaths was 167, and of males, 100. This confirms an observation made in a previous part of this work—that in a salubrious climate, fertile soil, with sufficiency of food and comfort, and among a free people, it appears to be a fixed law of

The colonial surgeon, Mr. Ferguson, gives CLIMATE, dry and warm, near Perth; and the following comparative statement of deaths among 1,000 people, in several places:-Western Australia, 12; New South Wales and Van Diemen's Island, 15; Cape of Good Hope, 16; Nova Scotia and New Brunswick, 18; East and West Canada, 20; Gibraltar, 22; Ionian Islands, 28; Mauritius, 30, St. Helena, 35.

^{*} The best English zinc ores, those of Allowhead in Northumberland, contain no more than 58 lbs. 13 oz. in the 100 lbs.

tern Australia are similar to those of the for a considerable time. The most numerother colonies of the island-continent: they ous and important are the several varieties are few in number, and very peculiar in of the well-known kangaroo (macropus), one kind. Of all the known mammalia, but species of which (macropus unguifer), has fifty-eight species, or about the one-seven- the singular appendage of a nail, like that order of carnivora, if we except the manne sort of sloth (phascolarctos), the wombat mana, pachydermata, and ruminantia, appear kangaroo. to be without any land representatives in

beaver. A new genus of rodentia, discoopossum, is described by Mitchell, as having feet resembling those of a pig, the marsupial opening downwards, instead of upwards, as in the kangaroo, and about the and crows of this order, and beautiful birds of size of a rabbit, but without a tail. Two species of mice (both peculiar), and the dipus Mitchellii, Australian jerboa, are mcobius rufus, or red shrew-mouse, is sometimes considered as belonging to that order.

ZOOLOGY.—The native animals of Wes- the young hang to the mamme of the mother teenth part of the whole, belong originally on the little finger of a man, attached to its to this region; and of these, more than one-tail the others are the different species of half are of the marsupual order. Of Cuvier's opossums, bandicoot, or pouched badger, a mammals of the seal genus (phoca), the (phascolomys), an animal about the size of a dingo, or native dog, is the sole represen- badger, and very slow in its movements, and tative, and the important orders of quadru- the kangaroo rat (pataroo), a diminutive

ORNITHOLOGY.—The list of Australian this large portion of the globe. Of the birds present but two orders, wholly peculiar, edentata, the genera echidna, and ornithor- namely, the syndactyles, of which the most hynchus, are destitute of teats, and do not beautiful are "the sacred kingfisher." the suckle their young. The former genus variegated bee-eater, the charming little (echidna), consists of two species of porcu-trochilus, or humming-bird, and the scanpines, one entirely covered with thick spines, sores, consisting of parrots, parroquets, the other clothed with hair, in which the cockatoos, &c., which are very numerous, spines are half hidden. The ormthorhynchi and adorned with every variety of gorgeous consist also of two species—O. rufus and plumage. Among the order accipitres, is a O. fuscus. These creatures unite with the species of vulture, so fierce, that when pressed body, the fur, and habits of a mole, the by hunger, he has been known to attack the webbed foot and bill of a duck, are ovovivi- natives themselves. The white eagle is also parous, and have the internal formation of a a very rapacious bird. The cream-bellied reptile. They are very shy, and lead a bur-falcon, the orange-speckled, and the milkrowing life in the mud of rivers and swamps. white hawk, are common varieties; the last Of the rodentra, two species belong to especially makes great havoc among the the sub-genus hydromys, and consist of poultry. Of the owls, the most numerous is creatures that seem to unite some of the the bird called the cuckoo by the colonists, peculiarities of the dormouse, rat, and and "buck-buck" by the natives, from the cry which it reiterates during the winter vered by Mitchell, and called by him the nights. The order dentirostres includes a flat-tailed rat, is remarkable for the enor- beautiful bird, having the habits of the redmous nest of branches and boughs, which it breast; several varieties of the thrush, one builds so strongly, as to be proof against the of which has obtained the soubriquet of the attacks of the dingo, or native dog. The laughing jackass; a description of field lark, rabbit rat, which climbs trees like the and the wattle bird, which utters a chattering note; swallows and goat-suckers, of the order fissirostres, are numerous.

Controstres.—There are several magpies paradise, but the latter, like the various species of enmachs, are confined to northern Australia.

Gallina.—Pheasants, quails, and pigeons cluded in the list of rodentia, and the myme- are in considerable numbers, of the latter the most remarkable variety is the bronzewinged. Grallæ.-The cassowary or emu is With these few exceptions, the whole of the found in nearly all parts of Australia. It is Australian mammalia are of the marsupial a very wild creature, and runs more swiftly order, of which there are many species; the than an English greyhound. The eggs are only character common among them being of an elongated form, and of a green colour; what has been termed the premature pro- the flesh though coarse is eatable, especially duction of their young; for even in the few that of the young. Australia has also some kinds of marsupralia not possessed of pouches, species of bustard, curlew ibis, -some of a glassy rifle-green; herons, avasets, rails,

snipes, spoonbills, &c.

Palmipedes.—The black swan is found here. Gannets or boobies are numerous, especially on the north coast, where penguins, petrels, and ducks also abound. cereopsis somewhat resembles the goose.* Vampires of a large size are numerous.

REPTILIA.—The reptiles of Australia consist of two or three genera of turtles; as many varieties of alligators, a considerable number of lizards and serpents, both venomous and harmless. The great lacertæ, as alligators, &c., do not appear to have been found in Western Australia. The landlizard, and the crimson-sided snake (Coluberporphyriacus), are of extraordinary beauty. Serpents, also, of different species, have been seen floating upon the water, in chase of the curious ponquin. Frogs are numerous. variety of hzard (the chlamydosaurus Kingii) is remarkable for a frill behind the head and above the shoulders.

INSECTA.—The insects are very numerous. and many of the butterflies, moths, and beetles, are brilliant and beautiful. Locusts abound in the hottest season. In swampy places mosquitoes are extremely troublesome, but they are scarcely known in the upper lands. Scorpions and centipedes are found among dead wood. Wild bees swarm in many places, depositing their delicious honey in the hollow trees. especially the blow-fly (musca carnivora) are numerous in some districts. The gum-grub, an insect about six inches long, is esteemed by the natives a great dainty, and there are various species of ants in Australia, some of which are provided with wings. Ant hills have been found measuring thirteen feet in height, and seven at the base, tapering gradually to the summit.

Botany.—The vegetation of Australia has been frequently alluded to, and will be more fully dwelt on in describing that of Van Diemen's Island, which it closely resembles.

CHAPTER III.

POPULATION, EUROPEAN AND ABORIGINAL-LAND IN CULTIVATION-LIVE STOCK-LOCAL RECEIPTS AND EXPENDITURE—PARLIAMENTARY GRANTS—VALUE OF COMMERCE—SHIPPING—STAPLE PRODUCTS—TARIFF OF DUTIES—ITEMS OF TAX-ATION—GOVERNMENT—RELIGION—EDUCATION—CRIME—THE PRESS—PRICES OF PRODUCE—COLONIZATION ASSURANCE COMPANY—TRANSPORTATION TO WEST-ERN AUSTRALIA. SUMMARY—STATISTICS OF FOUR COLONIES IN AUSTRALIA.

The disastrous state of affairs at the early &c. From this document the present social collection of statistical returns, and it is only within the last few years, that any complete Blue Books have been received at the colonial office. By an examination of various statements and authorities, I have endeavoured to frame the following connected view of the state of the colony from 1834 to 1848, in its different aspects of population, cultivation, farming stock, revenue, and expenditure, commerce, shipping,

* The habits of the Australian birds are most peculiar; one, commonly called the bower bird, builds for itself a kind of roofed and sheltered pleasure-ground (see Gould's Australian Birds); another, the megapodius tumulus, constructs a nest in the form of an irreguiar truncated cone on an oblong base, one of which Captain Stokes found to measure 150 feet in circumference, the slope of its sides being from eighteen to crease of temperature in the mound.

formation of the colony, precluded the condition of the country will be seen; and it may be noted, that for the last five years there has been a progressive advancement in population, cultivation, trade, and other elements of prosperity. In 1830, the white population were computed at 1,500; in 1831, there were 200 acres of land under cultivation with the hoe and spade, and 100 acres of wheat were reaped; in 1832, there were 440 acres of grain crops; and in 1833. 600 acres; the progress has since been-

> twenty-four feet, and its perpendicular height ten or twelve feet. It was composed of earth, fragments of coral or stone, and pieces of stick. On examining these mounds by clearing away three or four feet of earth, the eggs of the bird were found, measuring eight and a-half inches lengthwise in circumference, and six and three-quarters across. There was no in-

S'	TATE O	F V	VESTERN AUSTI	RAI	LIA FROM	I 1	834 TC	1848.	
1849	111	ı	111111111	1	11111	١	111	111 1	ı
1848.	2,818	4,622	3,316 672 133 100 38 120 114 10 224 2,320	7,174	2,095 10,919 141,123 2,287 1,431	157,855	10,723 7,695 11,546	45,411 29,598 6,494 301,965	9996
1847.	111	1	2,976 654 61 60 50 20 1,271 1,862	5,784	1,841 8,699 114,124 2,963 1,766	129,393	8,453 6,893 10,265	25,463 24,535 5,406 229,247	11,464
1846	111	1	3,977 606 126 68 31 139	5,137	1,727 7,583 102,084 2,963 2,223	116,570	7,853 7,250 9,864	25,959 20,223 6,365 291,369	13,363
1845	111	ı	3,313 622 632 63 16 19 76 76	4,830	1,430 6,508 95,681 -2,632	106,251	7,127 7,090 10,746	20,349 13,353 7,855 145,254	7,257
1844	111	ı	3,283 638 79 77 17 17 17 17 17	4,860	1,231 5,376 86,482 1,702 3,227	810'86	9,754 7,092 9,973	36,686 13,609 10,002	2,008
1843	1,188 1,714 951	3,853	2,834 447 120 32 4 81 — — — — — — — — — — — — — — — — — —	4,566	1,202 4,861 76,191 1,951 3,733	87,938	10,312 7,479 10,752	36,441 13,364 17,130	6,125
1842	2,115	3,476	2,039 444 1129 71 71 71 71 830	3,364	1,069 4,122 60,380 1,713 5,615	72,899	9,970 7,961 12,344	37,486 7,089 32,496 84,640	1
1841	1,706	2,760	1,899 33.7 130 130 706	3,328	858 2,917 44,751 8,161 6,547	62,034	11,646 6,819 13,219	39,850	i
1840	592 1,205 567	2,354	1,650 337 48 48 50 200 800	3,135	2,318 30,161 1,595 4,604	39,178	9,376 5,373 11,440	39,611	-
1839	1,302	2,154	1,471 260 98 98 77	2,725	367 1,308 21,038 1,235	23,948	3,912 7,008 13,199	40,000 5,448 16,805 36,450	2,278
1838	1,162	1,928	1,400 240 100 100 1 16	2,457	271 1,052 15,590 970 2,436	20,319	5,193 6,945 11,344	6,840	ı
1837	647 858 442	1,847	1,253 253 141 141 1 16 1 115 276	2,079	254 837 10,271 704 1,690	13,756	4 586 7,230 11,544	39,283 6,906 3,031	ı
1836	111	ı	1,363 209 128 128 112 112 240	2,091	216 829 8,527 819 1,289	11,680	6,153	50,636 2,850 5,587	ı
1835	111	1	1,156 1,156 1,26 1,26 1,26 1,26 1,31 1,31 1,31 1,31 1,31 1,31 1,31 1,3	1,634	167 646 6,138 550 657	7,158	6,884 6,291 8,708	50,000 1,740 4,048	i
1834	111	1,600	116 100 116 15 123	918	162 600 3,500	4,162	111	1,020 3,120	ı
Population, Land, Lave Stock, &c	European Populaton — Children, under 12 years Males, above 12 years Females, above 12 years	Total	Acres under Cultration — Wheat Wheat Barley Oats Bye Marse Potatoes Vineyard Ohre ground Kitchen garden Green crops	Total	Lave Stook — Horsee Horsee Sheep Swine Goats	Total	Local receipts of revenue in £ Parliamentary grant expenditure in £ Commissariat, military expenditure) in £	Value of commerce — Imports in £ Exports in £ Briports in £ Wool Exported — Quantity in lise	Value in £

ABORIGINES.—The state of the aboriginal inhabitants in Western Australia is far supemor to that attained by them in any other Australian colony. This most honourable peculiarity, however, though doubtless attributable, in the first instance, to the personal character and conduct of the early settlers, of whom an unusual proportion belonged to the better classes of society. and to the judicious policy pursued by the local government, appears to have been, about by the very fact in other respects so cessation of immigration, which not only original system with regard to the savage. but rendered caution and forbearance, as well as firmness, obviously indispensable. The settlers are reaping their well-mented fruits, in the perfect tranquillity they enjoy, and the very considerable assistance they receive from the coloured population. So appreciate their rights as British subjects, that they now appeal to the tribunal of the law in their differences with the "white fellows," and occasionally even in those with each other.

The numbers receiving regular and casual employment in 1848, was-

County or District	Males	Females	Total
Perthshire	130	32	162
Yorkshire	65	10	75
Wellington .	65	11	76
Plantagenet .	53	7	60
Toodyay district	52	53	105
Sussex	47	8	55
Murray	6	2	8
Total	418	123	541

Of these, many are employed about the farms as herdsmen and messengers, and occasionally in reaping and harvest work, some, more regularly as servants; but in general, they refuse all hard or steady work. and no wages will induce them to forego any amusement, or to settle permanently in one place. They are essentially creatures of impulse, absolutely devoid of any desire

• In a recent letter from Western Australia, dated March, 1850, is the following statement:- "We run the mail to York, to Bunburry, and to Vasse once a week, with natives only. The York native is mounted, and costs us some £36 a year. The Perth and Fremantle and the Guildford mails are run daily, with the utmost punctuality, and cost but the natives' rations, as they are prisoners on their parole, and there is a mare man in case of the sickness of any of these

to better their condition, and inclined to look with contemptuous superiority upon he laborious habits of their new associates. 'White fellow," say they, "fool, too much! work, work, always work! Black fellow lay, plenty play!" They appear, nevertheess, to be attached to the "white fellows." and are a merry, harmless, idle, good-natured race; sometimes very useful, often most provoking; on the whole, honest, but afflicted with a constitutional preference of nevertheless, in no small degree brought mutton to kangaroo, which is the fertile source of compulsory labour on the roads.* injurious to the colony, namely, the sudden Schools have been established for the children, and an institution is maintained by left the same individuals to carry out the the Wesleyan body, assisted by government, at which indefatigable and judicious efforts are made to infuse into their minds the principles of religion and social improvement. Their quickness of apprehension as shown in the facility with which they learn reading, writing, arithmetic, &c., is said to greatly surpass that of the white child, and completely have the natives learned to the mere experience of the schools would warrant the highest expectations of their future acquirements; with puberty the inherent idleness, and the restless longings after the wild and wandering life of the bush, are developed—and the clean, bright, intelligent child, able, not merely to read, but to understand what he reads, merges into the filthy, lazy savage, gorging himself to stupidity, and basking under a gumtree. In some instances, however, the persevering care of the teachers has succeeded in inducing a few to remain on the establishment, to marry, and cultivate land for their own support.

> The classified occupations of the white population in 1848 was, in-

> Agriculture. - Occupiers, employing labourers, 124; ditto, not employing labourers, 176; agricultural labourers and gardeners, 476.

> Grazing.—Employed in the care of sheep, 121: of cattle, 24.

Trade.—Shopkeepers, and other retail dealers, and their assistants, 64; bricklayers and masons, 32; smiths, 22; carpenters, joiners, plumbers, and glaziers, 98; tailors and shoemakers, 39; sawyers and splitters, 49; other non-agricultural classes, capitalmen: these are all brought from Rottnest. The men who go from Fremantle to Mundurah, Bunburry, and Vasse, are also prisoners. We have no less than four native prisoner boys generally serving on board the Champuon. You would be surprised to see one of them steering the vessel, going aloft to reef a top-sail or furl a royal. The governor has one now for a body servant, and a number of our teams are brought into town by them."

ists, bankers, professional, and other educated men, their clerks and assistants, 44; civil officers, their clerks and assistants, 69; labourers, employed in labour not agricultural, including mariners, boatmen, fishermen, toll-collectors, road-makers, carters, is thus shown on the 10th October, 1848:--

&c., 241; domestic servants (male), 55; military men, 103; all other males, above fourteen, not included in the above, 106. Residue (women, children, and others), 2,690. The state of each of the settled districts

Population, Land, Live Stock, &c	Perth County	York County.	Welling- tonCounty	Plantage- netCounty	Toodyay District	Sussex County	Murray County	Total
Population — European, males females	1,415 1,098	425 199	217 141	186 114	258 107	142 82	98 51	2,818 1,804
Total .	2,513	624	358	300	365	224	149	4,622
Aborigines, males . n females .	302 221	=	=	300 150	=	100 50	39 34	=
Total	553	134	300	450	300	150	73	1,960
Acres under Cultivation — Wheat Barley Oats Rye Mause Fotatoes Vineyard Olive-yard Kitchen garden Green crops Lave Stock —	1,064 143 113 44 29 48 90 8 146 990	771 172 9 16 1 1 1 11 —————————————————————————	406 99 —6 —20 7 24 69	92 35 4 5 5 13 — 12 44	484 106 7 5 — 2 2 — 10 355	126 103 — 20 23 33 1 — 15 184	371 111 -3 1 3 1 -1 -15 184	3,316 672 133 100 38 120 112 10 243 2,320
Horses Horned cattle Sheep Swine Goats	394 2,873 8,888 786 1,050	610 1,483 62,409 543 25	124 1,729 3,415 167 198	251 505 9,582 85	460 1,682 49,180 367 31	184 1,172 6,020 134 43	72 1,175 1,629 205 84	2,090 10,910 141,120 2,280 1,43

Note—The total of the roturn of European population includes the troops stationed in the colony, their waves and children, numbering altogether 162—It also includes 77 males and 12 females = 89, on board colonial vessels and on emgration parties—Of the aborigines 418 males and 125 females are regularly or casually employed by the Europeans

GOVERNMENT —The colony is at present | ruled by a governor, aided by an executive council, consisting of the colonial secretary, advocate-general, surveyor-general, and collector of revenue. There is also a Legislative Council, composed of the above, in conjunction with the civil and criminal judge, and with three non-official members appointed by the crown, but it is probable that a more popular form will soon be adopted, under the provisions of a bill for the "better government of her Majesty's Australian colonies," which has undergone full discussion in both houses of the Imperial Legislature, while this volume has been passing through the press, and received its final decision in the House of Commons on the 1st August, 1850. The provisions of this bill, as first introduced to parhament, in March last, are stated at pp. 555-560: since then, the bill has undergone several modifications in the House of Lords. proposed power to create a Federal Assembly of the Australian colonies, which, I feared, would prove a source of contention (see p. 558), has been withdrawn, as also the power the colonial revenues, and to form a civil to dispose of the crown lands by the said list.

Assembly (see note, p. 554): the qualification of voters is fixed at the possession of a freehold estate, of the clear annual value of £100; a £10 household franchise; or the possession of a leasehold estate or licence to depasture lands from the government, of the value of £10 sterling per Under the amended bill, the coloannum. mal Legislative Councils have power to alter the qualifications of electors, and to divide the Legislative Council into two chambers; but they have not the power to declare there shall be a single legislative chamber, or that the nominees of the crown, whether official or non-official, shall be altogether excluded from that chamber, lative Council may be established in Western Australia, as in the other Australian colomes, if petitioned for by not less than onethird in number of the householders within the colony, provided the province undertakes to defray the expenses of the civil establishment, which have been heretofore borne by the Imperial Parliament, such sums to be permanently granted to the crown out of including three officers, stationed in different places. There are barracks at Perth capable of holding sixty men; also small barracks at Albany, Kogonup, Bunburry, York, Pingarra, and Rottnest Island.

Religion.—The religious denominations in the colony, October, 1848, were—church of England, 3,063; Wesleyan methodists, 276; independents, 187; other protestant dissenters, 188; protestants, 311; church of Rome, 337; Mahomedans and Pagans, 90; religion not specified, 169. The church of England colonists in Western Australia have built ten churches—and several temporary places of worship—have subscribed 8,000 acres of land towards a bishopric fund, and have contributed liberally towards the maintenance of their clergy and the establishment of schools. The church at Perth, capable of holding 1,000 persons, has cost £3,500, and that at Fremantle, £1,500. There are three clergymen of the established church, under the supervision of an archdeacon; and three of the church of Rome. under a Roman catholic bishop. There are also several exemplary dissenting ministers.

EDUCATION.—The governmental schools are under a board of education; the instruction is entirely secular. In the Roman catholic schools the Irish national system is adopted.

Schools.	No.	Male Pupils	Female Pupils	Total
GOVERNMENTAL:— Perth infant Fremantle Murray Guildford York Albany In connection with R. Catholic Church	2 1 1 1 1 1	55 27 26 9 18 28 14 61	28 33 10 5 6 — 19	83 60 36 14 24 28 33
Total	11	238	206	444

The Press.—Two well conducted newspapers are published at Perth, and an excellent Western Australian almanac, replete with useful topographical and statistical information, has been published in the colony for the years 1842 and 1849.

CRIME.—Number of felonies in 1848—whites, 11; blacks, 47. Of misdemeanours—

whites, 14; blacks, 4.

TAXATION.—The duties levied in Western Australia, in 1848 (Blue Book), were:— On spirits imported, the produce and manu-

MILITARY DEFENCE.—About 100 men, facture of any part of the British empire, 6d per imperial gallon; ditto foreign produce and manufacture, 8s. per gallon; wines, produce and manufacture of British empire, 6d. per gallon; ditto, foreign, 1s. 6d. per gallon; cigars and snuffs, 2s. 6d. per lb.; tobacco of all other kinds, 1s. per lb.; live stock imported from any part of the British empire, 6s. per cent., other places, 12s. per cent.; goods, ware, and merchandise, the growth, produce, or manufacture of any part of the British empire, not otherwise charged with a specific duty, 6 per cent.; ditto of any foreign state, 12 per cent. Internal duties—Auction duty, 2½ per cent.; on registering transfer of landed property, 1 per cent.; spirit licences, £10 to £25 per annum; auctioneer and attorney licences; dog tax; heences to cut timber, on 640 acres, £20 per annum, or 10s. a month for each pair of sawyers; heences to occupy crown lands for pasturage, from £10 per annum for 4,000 acres, to £20 per annum for 20,000 acres. Lacences for boats and for boatmen, warehouse rents, &c.

> The revenue raised in Western Australia for three years was-

	Details of Revenue	1848	1847.	1846
	Duties on spirits wine tobacco goods imported, ad valorem goods sold by auction stransfers of land Licences to sell spirits to sell by auction to keep dogs Warehouse, rent of Spirits in bond Fees of public officers	£3,494 3 507 910 2,143 92 22' 547 31 80 ———————————————————————————————————	£3,689 403 658 1,533 84 44 482 32 41 ——————————————————————————————————	£3,475 288 790 1,393 117 35 498 15 51 33 148
	Post-office department Total	298	296 7,674	332 7,175
	Sale of crown lands Lucences to occupy ditto . , , to cut timber . Perth jetty dues	463 576 226 24 611 158 39 41	251	124 258 63 283 39 54 165
	On account of parliamentary grant	2,147 7,695	1,461 6,893	986 7,250
L	On account of juvenile immi-	277		

18,464 16,028 15,411

Grand total .

The civil expenditure in 1848 was-

Departments.	From Parlia- mentary Grant	Colo- nial Fund	Total.
Audit office	£681	£293 127	£293 808
Colonial secretary's office.	TOOL		
Colonial treasurer's office.	177	63	63
Commandant	111	891	177
Customs revenue			891 150
	292	150	
Ecclesiastical office		376	
Governor's office	1,118	100	
Harbour-master	000	512	512
Medical department	266	270	
Natives and native schools .	744	221	965
Police force		690	690
Post-office	- 1	596	596
Public works		845	845
Registrar-general	-	20	20
Registrar of deeds	-	62	62
Roads and bridges	- 1	468	468
Rottnest establishment	-	393	393
Schools	-	212	212
Surveying department	1,620	961	2,581
Judicial department	1,558	694	2,252
Miscellaneous	133	2,250	2,383
Juvenile immigrant department	276	_	276
Colonial vessel	827	_	827
Total expenses	7,692	10,194	17,886

Total expenditure of the troops in Western Australia, during 1848, for pay, allowances, pensions, supplies, exclusive of the salt meat and candles sent from England, and transport, £10,501; repairs to military buildings, lodging money, &c., £1,044 = £11,545; add Parliamentary grant for civil expenses, from military chest, £7,128 = 18,673.

COMMERCE is increasing, and the exports fast rising to a level with the imports. The details of trade in 1848 were—

ountries	Imports from	Exports to	Shipping Inwards
United Kingdom British Colonies Foreign	£19,218 24,922 624	£12,965 15,612 1,020	Tons 1,416 4,888 9,190
Total	£44,764	£29,597	15,494

Staple Products.—Wool, timber, oil, fish; to which will, probably, soon be added copper, lead, and other metals.

A Geraldine Mining Company has been established at Perth; capital £6,400, in 1,280 £5 shares. A silver-lead mine, in the Toodyay district, yields five ounces of silver to the ton of ore, roughly assayed.

Mother-o'-pearl shells, which are worth from £20 to £70 a ton, cover a district of Sharks' bay having six to twelve feet

water: and pearls as large as peas have been recently collected there. An island covered with guano, equal to that of Peru, has been recently discovered in the same neighbourhood; where the raspberry (an acacia, so called from the odour of the timber), sandal, and red ebony woods have been found growing within 200 yards of the beach. The sandal wood of Western Australia is a lucrative article of export; some sent by the Vixen to Singapore, for the China market, sold for £21 per ton, leaving a net profit of £17 per ton. Her Majesty's dockyards are now contracting for the excellent ship timber of Western Australia, some of which (the jarrah) endures any time in water, and is not eaten by that destructive worm the teredo navalis; ships built with it require no coppering; a plank may be cut of any size; and there is enough of timber and knees, of the best kind, to supply the British navy for centuries.

A forest of the jarrah, or mahogany, at a distance of eighteen miles from Perth, and twenty from the sea, extends over a tract of at least 140 miles from north to south, with a known width of four miles from east to west. The trees are very fine; and it has been computed that this forest alone contains sufficient of this invaluable timber to build 17,920 line-of-battle ships, reckoning the largest amount of timber ever required for a ship as the average. Twenty navies equal to that of Great Britain might, therefore, be constructed from this single forest.

The jarrah, and indeed all the heavy timber of the colony, is included in the genus eucalyptus; but the species are very numerous: of these, that called the tuart ranks next to the jarrah in value, and is indeed, in some respects, superior to it, but is not nearly so abundant.

The white gum much resembles the tuart, and partakes in its remarkable quality of scarcely shrinking in the process of drying; but it is looked upon with an evil eye by the settlers, as indicating the predominance of ironstone and clay in the soil.

The red gum, one of the most common, but also the most beautiful, of its tribe, though of no great value as timber, being subject to dry rot, is easily worked, and much used in the colony for spokes of wheels and split fencing of all descriptions.

The *morrel*, chiefly found in the Toodyay district, is highly esteemed for its toughness and strength.

The great blue gum is found in perfection in the neighbourhood of Nornalup and the Deep river, between Augusta and King George's Sound, where it attains the extraordinary height of from 100 to 150 feet, and measures fifty feet in circumference.

There are, besides, the black butt, salmon

gum, and many others.

The ornamental woods of the colony are numerous, and many of them very beautiful in grain and figure. The sandal wood has been before mentioned. The raspberry, or jam wood, which somewhat resembles rosewood in grain and colour, grows generally in the country within the range. The casuarina, or the oak, found mostly in the sandy districts near the coast, when well worked up, is a very pretty wood.

Besides these, there are several other kinds of ornamental woods, as the banksia, and various species of dryandria, one of which is called satin-wood by the colonial

cabinetmakers.

Fisheries.—At present, only one vessel and about eighteen boats are employed. The Americans and French carry on extensive whaling pursuits in the very harbours of Western Australia, whose fisheries are among the finest in the southern hemisphere. The entire coast swarms with snapper, whiting, mullet, bream, kingfish, mackerel, &c., of the highest quality. The snapper weighs from 10 lbs. to 40 lbs, and dried, sells for £16 per ton, at the Mauritius.

Banking and Monetary Affairs.—An excellent institution termed the Western Australian Bank, was established in June, 1841, with a subscribed capital of £20,000, in 2,000 £10 shares. The capital paid up is £5,544, by about 100 proprietors. The dividend paid for the last five years has averaged twelve and-a-half per cent. per annum. The paper circulation in July, 1849, was £2,652; the bills under discount, £10,360; and the deposits not bearing interest, £13,718. Com of all descriptions in the colony, about £11,000.

Exchange.—Bills on her Majesty's Treasury, and on agents of Western Australian Bank, London, at par in 1848. Private bills on London, at thirty days' sight, five per

cent. discount.

Prices of Produce in Western Australia in 1848— Meat, per bushel, 5s; barley, 4s.; oats, 4s.; horses, £20; horned cattle, £6; sheep, mixed flock, 4s; goats, milch, 5s.; swine, 10s. each; flour, per ton of 2,000 lbs, £16, wheaten bread, per lb. 2½d.; milk, dd. per. quart; butter, 1s. 6d.; cheese, 1s. 2d.; beef,

5d; mutton, $3\frac{1}{3}d$; pork, 8d; rice, 2d; coffee, 6d; tea, 2e; sugar, 3s.; salt, 1d. per lb.; wine, 4s 6d; brandy, 18s.; beer, 4s. per gal.; tobacco, 2s. 6d. per lb.

Wages for labour.—Domestics, £15 to 20; predialshepherds, £36; farm servants, £24 per annum;

trades, 6s. per diem.

It remains for me now only to notice two important features connected with the colony. I have already adverted to the advantages possessed by colonies which have public companies in England connected with their welfare. Western Australia, excepting in the short-hved instance of the Australind Association, has not hitherto had this collateral benefit. Earl Grey, however, with a view to the remedying of this defect, has sanctioned the formation, by act of parliament, of a Colonization Assurance Company, in London, whose operations for the promotion of colonization are to be directed to Western Australia. The corporation. under the provisions of the act of the imperial legislature (13 Vic. c. 24), has rightly ordained that the responsibility of its shareholders be limited to the amount for which they have severally subscribed. The capital authorised to be raised in the first instance. is £100,000 in £10 shares, with power of increase, subject to the consent of the Lords of her Majesty's Treasury. The corporation is authorised to purchase and to hold lands The to any extent in the colonies and dependencies of the British Empire: any emigrants conveyed or caused to be conveyed to Western Australia by the company, shall entitle them to receive land scrip to the value of £20 for each emigrant, male or female, above fourteen years of age, or for every two emigrants under that age. The land-scrip is to be taken in payment of crown lands in Western Australia, at the rate of 20s. per acre; corporation may require the governor to put up crown lands, under certain provisoes. Accounts of corporation are to be annually reaudited by the registrar of joint-stock companies, and the annual report to be sent to the Board of Trade. The operations of the company are not to extend beyond Western Australia, except the consent of the local legislature of the colony in which it is proposed to commence operations, and that of her Majesty's Secretary of State for the Colonies, shall have been previously obtained. Taken altogether, the act is liberal, and may be beneficially worked for the interests of the shareholders of the company, and of the colonists. It is understood that the corporation intend to purchase eligible sites good conduct, their services will become in Western Australia, for the formation of available to the settlers; but if they should of his heirs; thus the emigrant may be system of assignment. capital, but out of profits to be realized from his own labours, aided by the fostering ex-30, for an annual premium of £7 4s. 1d., is put into immediate possession of 100 acres of good land, and whenever he dieseven if within the first year—the land becomes the property of his representatives, without further payment. There are also calculations for limited periods of assurance. settlements, churches and clergy of the church of England: and it will afford liberal assistance to other classes of Christians, according to the circumstances of each case. I believe this useful association has been projected and carried into operation by R. W. Nash, Esq., late member of the Legislative Council in Western Australia, by whose unceasing exertions the colony has been materially benefitted.

Transportation.—Her majesty's government, in accordance with the strongly expressed desire of the colonists of Western Australia, have resolved to send out a moderate number of convicts to the colony, who will, at first, be entirely under the control of the government, and be employed in improving the harbours, opening roads, cutting valuable timber, or in such other public works as the government, in conjunction with a competent officer sent from England for the purpose, may consider most likely to develop the resources of Western Australia, and to remove some of the obstacles to the progress of the colony, by employing a competent force of labour upon undertakings to which private means have proved inadequate. The convicts to be selected for this useful purpose, will be those who from their conduct at their present places of detention, and from their having to undergo but a short period of imprisonment prior to becoming qualified for a greater degree of freedom, appear likely to behave in an indus- to which each division of this work is necestrious and orderly manner. When they are set free from the public works on account of of 20th December, 1849.

settlements, and they propose to enable misbehave, and be therefore returned upon emigrants to lease lands from the corpothe hands of government, they will again be ration on the principles of Lafe Assurance; placed on public works at the expense, as in such lands, on the payment of a rent for the first instance, of the British Treasury. a given period, or on the termination of the There is no intention of assigning convicts life of the leaseholder, to be the property to settlers, or of introducing in any form the There will be no enabled to pay for his land, not out of interference whatever with the free character of the colony; and should parliament, as it is hoped, continue to grant an annual sum ertions of the corporation. Thus—A., aged for promoting free emigration to those colonies which receive convicts, her Majesty's government intend to send emigrants of good character, and of both sexes, equal in number to the convicts transported to Western Australia.

By intelligence from Perth, Western Australia, dated April, 1850, it appears that The company propose to devote a portion the active population of the colony are in of its funds to assist in providing for all its favour of these propositions, but they rightly deem that their efforts for the promotion of moral and spiritual instruction must be redoubled and watched over with increased vigilance. The statements given at page 409 to 419 of this volume shew that transportation, under proper management, is the most Christian course which can be adopted for the reformation of the sinner, and for the preservation of the community to which he belongs, from the effects of a renewal of his crimes. The absence of all spiritual instruction, the indiscriminate assignment-system, the terrific punishments adopted without the slightest effort to correct the evil tendencies of the criminals, and the pouring into a colony thousands of convicts without due admixture of free men and women, caused the necessity for cessation of transportation to New South Wales. But in Western Australia her Majesty's government are adopting a sound system, by which the United Kingdom may be relieved annually from the pressure of an enormous prison population, the expenses on the British Treasury materially lessened, and a fine colony, blessed with a genial clime and fertile soil, but with only 5,000 inhabitants to 1,000,000 square miles of territory, may be rendered attractive to free settlers of all classes, and have its prospects increased of becoming the seat of a large and flourishing free population.*

SUMMARY.—The limited number of pages

^{*} See Letter from Earl Grey to R. W. Nash, Esq.,

sarily restricted, not only compels an abbre- subject is one of deep and painful interest; precludes the discussion of several topics more or less connected with the four colonies whose description occupies the present volume.

The chief aim of this work being one of plain and practical utility, I have devoted the fullest assignable space to the details best calculated to illustrate the progress, actual position, and resources of these provinces, alluding only incidentally to the their skeletons, bone by bone, and minutely flora and fauna of this singular country, with which the splendid volumes of Gould and Angas, and the interesting delineations of Mitchell, Sturt, and other explorers, have already, to a considerable extent, familiarised

the public mind.

But there remains another subject from which I turn with more reluctance, although the above-named authors have dwelt upon it at some length; and Eyre and Grey also have published the results of their investigation. I allude to the condition and character of the aborigines, whose preservation from extinction, and, if possible, conversion, deserves the most strenuous efforts on the part of a Christian nation, and is indeed the only compensation that can be made for the evils which the very presence of the white man, and the civilization, which has become a second nature to him, unavoidably brings to the savage. Viewing it in this aspect the by England in Australia:—

viation of different sections, but altogether to me it also appears very important in an ethnological point of view; and when in Australia I exhumed the body of a female aborigine who was buried in the solitude of the forest with the customs peculiar to her race; and I obtained, after execution, the body of a native chief, brought to the scaffold for the murder of an English shepherd, at Bathurst, New South Wales; I measured investigated their physical configuration. Having, however, arrived at my last page, I am reluctantly compelled to close the volume with a hope that when the historical, geographical, and statistical delineation of the colonies is completed, I may, with the aid of that liberal support with which the public has thus far sustained my labours, be enabled to present in a single volume a full and illustrated description of the aboriginal or native subjects of the British crown in various parts of the world, viz., the natives of British North America, of British South America, of Australia, of New Zealand, of India, of Africa, and of the islands in the Pacific and eastern hemisphere.

In conclusion, I cannot, I believe, offer a better summary of the facts contained in the preceding pages, than is comprised in the following tabular view of the colonies planted

State of the Colonies on the island-continent of Australia, in 1850.

Particulars.	New South Wales	Victoria	South Australia.	Western Australia	Total
Date of formation, A D	1787	1836	1836	1829	_
Area in square miles, about	500,000	92,000	300,000	1,000,000	2,000,000
White population, about	200,000	50,000	50,000	5,000	305,000
Number of acres to each inhabitant	1,600	1,117	3,840	128,000	_
Acres of land in cultivation	130,000	40,000	50,000	8,000	228,000
LIVE STOCK:—	•		i		· ·
Horses	100,000	17,000	6,000	3,000	126,000
Horned cattled	1,400,000	400,000	100,000	12,000	1,912,000
Sheep	7,000,000	5,200,000	1,200,000	150,000	13,550,000
Swine	70,000	6,000	1,500	2,500	80,500
MARITIME COMMERCE:		,	•		
Value of imports in £	1,300,000	500,000	400,000	45,000	2,245,000
Value of exports in £	1,500,000	600,000	500,000	35,000	2,635,000
Shipping tonnage inwards	140,000	70,000	40,000	5,000	255,000
Local revenue in £	300,000	100,000	120,000	10,000	530,000
Civil cost to Great Britain in £				7,500	7,500
Military cost to Great Britain in £	70,000	- 1	16,000	11,000	97,000
Taxation per head, in shillings	30	40	48	40	_
Consumption of imports per head, in shillings	130	200	160	180	
STAPLE EXPORTS:					
Wool, in lbs.	16,000,000	14,000,000	3,000,000	400,000	33,400,000
Tallow or Oil, in cwts	60,000	28,000	3,000		91,000
Metals, in £	25,000		350,000		375,000
Chief town	Sydney	Melbourne	Adelaide	Perth	_
Population of capital	50,000	15,000	15,000	1,500	1 —

lote.—In the £70,000 stated as military cost of New South Wales, Victoria province is included. In the return of exported as from New South Wales, Victoria is also included. Bound numbers are used

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